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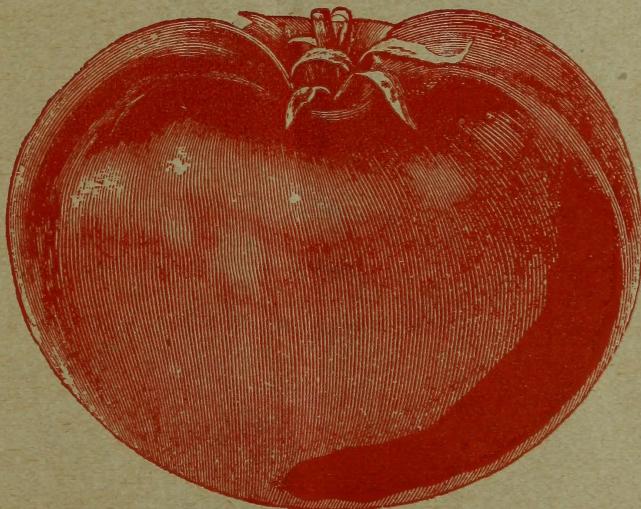
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Reliable Seeds

11th Annual Catalogue



1904

Shugart & Ouren Seed Co.

320 BROADWAY,

Council Bluffs, Iowa.

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AGENTS WANTED

In all parts of the United States to handle our seeds, plants and supplies, where we have none at present. Write for terms, discounts and **special premium offer.** EXTRA MONEY CAN BE MADE AT A TIME WHEN YOU HAVE NOTHING ELSE ON HAND. Samples of seeds, showing how they are put up, quality, etc., mailed to those interested on receipt of 10 cents to cover postage and packing.

Miscellaneous Tools.

The New Cyclone Seeder,	\$1.50
Improved Cahoon Seed Sower,	2.75
Rotary Corn Planter,	1.25
Utica Blizzard High Pressure Sprayer,	
No. 35, galvanized iron tank,	2.00
No. 30, brass tanks,	3.00
Utica High Pressure Double Cylinder Sprayer,	
No. 15, made of sheet steel,	5.50
No. 40, made of galvanized iron,	6.00
No. 20, made of copper,	8.00

Weight of Various Articles.

Lbs. Per Bu.

Barley	48
Beans	60
Buckwheat	52
Blue Grass, Ky.	14
Blue Grass, English	24
Canary Seed	60
Cheat	34
Clover Seed	60
Corn, ear	70
Corn, shelled	56
Charcoal	22
Flax Seed	56
Hemp Seed	44
Hungarian	48
Millet	50
Oats	32
Orchard Grass	14
Peach Pits	48
Peas, smooth	60
Peas, wrinkled	56
Perennial Rye	20
Potatoes, heaping measure	60
Rape	50
Rye	56
Red Top	14
Speltz	46
Timothy Seed	45
Vetches	70
Wheat	60

Quantity of Seed requisite to produce a given number of Plants and sow an Acre.

Quantity Per Acre.

Artichoke, 1 oz. to 500 plants	6 oz.
Asparagus, 1 oz. to 800 plants	1 lb.
Asparagus Roots	5000 to 7250
Barley	2½ bu.
Beans, dwarf, 1 pint to 100 ft. of drill	1 bu.
Beans, pole, 1 pint to 100 hills	½ bu.
Beet, garden, 1 oz. to 100 ft. of drill	7 lbs.
Beet, Mangold, 1 oz. to 100 ft. of drill	5 lbs.
Broccoli, 1 oz. to 5000 plants	2 oz.
Brussels Sprouts, 1 oz. to 5000 plants	2 oz.
Buckwheat	1 bu.
Cabbage, 1 oz. to 5000 plants	2 oz.
Carrot, ¼ oz. to 100 ft. of drill	2½ lbs.
Cauliflower, 1 oz. to 5000 plants	2½ oz.
Celeri, 1 oz. to 15,000 plants	2 oz.
Cheat	2 bu.
Chicory	4 lbs.
Clover, Alsike and White	8 to 10 lbs.
Clover, Lucerne	15 to 25 lbs.
Clover, Crimson Trefoil	10 to 15 lbs.
Clover, Large Red and Medium	10 to 15 lbs.
Collards, 1 oz. to 5000 plants	2 oz.
Corn, field	5 lbs.
Corn, Rice (shellless)	4 qts.
Corn, Sweet, ¼ pint to 100 hills	6 qts.
Cress, ¼ oz. to 100 ft. of drill	12 lbs.
Cucumber, 1 oz. to 100 hills	1 to 3 lbs.
Egg Plant, 1 oz. to 2000 plants	4 oz.
Endive, ¼ oz. to 100 ft. of drill	4½ lbs.
Flax, broadcast	½ bu.
Grass, Blue, Kentucky	2 bu.
Grass, Blue, English	1 bu.
Grass, Hungarian or Millet	½ bu.
Grass, Mixed Lawn	3 to 5 bu.

Quantity Per Acre	
Grass, Red Top, Fancy Clean	12 bu.
Grass, Timothy	¾ bu.
Grass, Orchard, Perennial Rye, Red Top, Fowl Meadow and Wood Meadow	2 bu.
Horse Radish Roots	10,000 to 15,000
Kale, 1 oz. to 5000 plants	2 oz.
Kohl Rabi, 1-3 oz. to 100 ft. of drill	4 lbs.
Leek, 1-3 oz. to 100 feet of drill	4 lbs.
Lettuce, ¼ oz. to 100 feet of drill	3 lbs.
Millet, for seed 15 lbs.; for hay	30 lbs.
Melon, Musk, 1 oz. to 100 hills	2 to 3 lbs.
Melon, Water, 4 oz. to 100 hills	2 to 4 lbs.
Nasturtium, 2 oz. to 100 ft. of drill	15 lbs.
Oats	2 to 3 bu.
Okra, 1 oz. to 100 ft of drill	8 lbs.
Onion Seed, 1-3 oz. to 100 ft of drill	
4 to 5 lbs.	
Onion Seed for Sets	40 to 80 lbs.
Onion Sets, 1 qt. to 40 ft. of drill	8 bu.
Parsnip, ¼ oz. to 100 ft of drill	3 lbs.
Parsnip, ¼ oz. to 100 ft of drill	3 lbs.
Peas, garden, 1 pint to 100 ft of drill	
1 to 2 bu.	
Peas, field	2 bu.
Pepper, 1 oz. to 1500 plants	3 oz.
Pumpkin, 1-3 qt. to 100 hills	3 to 4 lbs.
Radish, 2-3 oz. to 100 feet of drill	
Rape	5 to 10 lbs.
Rye	1½ bu.
Salisify, ¼ oz. to 100 ft of drill	8 lbs.
Speltz	100 lbs.
Spinage, ¼ oz. to 100 feet of drill	8 lbs.
Sunflower	8 lbs.
Squash, Summer, 4 oz. to 100 hills	2 lbs.
Squash, Winter, 8 oz. to 100 hills	2 lbs.
Tomato, 1 oz. to 4500 plants	1 oz.
Tobacco, 1 oz. to 5000 plants	2 oz.
Turnip, 1 oz. to 250 ft of drill	1 to 3 lbs.
Vetches	2 bu.
Wheat	2 bu.

ORDER SHEET.

SHUGART & OUREN SEED CO.

320 Broadway,

COUNCIL BLUFFS, IOWA.

PLEASE LEAVE ABOVE SPACES BLANK

NO GOODS SENT C. O. D.

GENTLEMEN: Send me the Goods named below, according to the terms as specified in your 1904 Catalogue.

Name

Write the Address very plainly.

Date

190

Post Office

\$

County

State

STATE HOW MONEY IS SENT.

Give Express or
Freight Office }

Quantity

NAME OF ARTICLE WANTED

Amount

STREET RECORD

Quantity	NAME OF ARTICLE WANTED	Amount
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Amount Brought Forward.

Please give us here the names and addresses of some of your
neighbors who use seeds.

Ashton's Poultry Specific for Roup, Cholera, Etc., has proven itself A-1,
second to none. Try it.

To Our Customers and Friends.

We place the 1904 issue of our Catalogue in your hands with the hope that we may interest you in a Western Seed house. A great many will receive our Catalogue for the first time and to them we ask that they give our seeds a trial. We know that our seeds will please you.

It always was, and now is, our policy to supply the best seeds that can be procured in this or any other country.

Twentieth century, up-to-date, gardeners and farmers are turning to reliable Western seed houses for their seeds. The method of fifty years ago of procuring seeds now being fossilized and out of date. It is a well known fact that nearly all the reliable seeds to be procured are grown in the West and Central States.

We are located near the source of supply and at the terminus of a net-work of railroads, which enable us to get goods to you quickly, and at the minimum freight and express charge.

Our Catalogue is larger and better than ever and contains information which we are sure will be of value to you. We trust you will give it careful reading and favor us with your valuable orders. Wishing you a happy and prosperous season, we are,

Yours truly,

SHUGART & OUREN SEED CO.

How to send money. Remittances should be made by Postoffice or Express Money Order, Bank Draft, or Registered Letter. Postage stamps will be received for small amounts. Remittances in any other way are entirely at sender's risk.

How to order. Please use order sheets found in the front part of every Catalogue, carefully filling out the blank spaces at the top for shipping directions.

Be sure to sign your name, and give Postoffice and State. And to avoid mistakes, do not write letters on the same sheet as orders.

Seeds postpaid by mail. We send all vegetables and flower seeds in quantities of one pound or less by mail, postpaid, to any Postoffice in the United States, at prices named in this Catalogue, unless otherwise stated.

By freight or express. In ordering vegetables or flower seeds to be sent by freight or express at your expense, deduct 10 cents per pound from single pound prices, where postage has been added.

Prepay stations. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.

When to order. New goods are all in, and we are prepared to fill orders as soon as this Catalogue reaches you. Send in your

combined orders for seed, plants, supplies, etc., at once, and if you do not want all sent now we will send part now and balance of order later. The advantage of this is that your order is entered and filled, or stock reserved for it; and when you do want it, it can be sent upon notice to do so, with no delay. If you want part or all of your order held, state it distinctly, with date when shipment is to be made.

Large orders. Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it, with the very lowest market prices. A LETTER OF INQUIRY MAY SAVE YOU DOLLARS if you want to buy in quantity.

Complaints or praises. If you are well pleased with our goods, and manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully, and with the additional room and facilities we hope to get along the coming season without an error of any kind. Let us have your orders early, and we promise to please you.

We use every precaution in procuring fresh, pure and reliable seeds, etc., but it will not be possible for us to hold ourselves responsible for the growth, yield or failure of the crop in any respect. If our goods are not accepted on these terms they must be returned at once.



The Best Seeds That Grow and a List of Varieties it Pays to Grow.

What We Offer—At prices named we pay postage on all vegetable and flower seeds ordered, by the packet, ounce or pound, excepting Peas, Beans and Corn, for which, if wanted by mail, add 8 cents per pint, 15 cents per quart for postage. In ordering vegetable or flower seed to be sent by express or freight at your expense, deduct 10 cents per pound from single pound price, excepting for Peas, Beans, Corn and Onion Sets.

Special Rates on Seeds in Packets or Ounces.

This offer is by mail, postage paid by us, to any postoffice in the United States:

For remittance of \$1.00 you may select seeds, in pkts. or ozs. only, valued at \$1.25, you save \$0.25

..	..	2.00	..	..	..	..	..	..	2.00,	..	.60
..	..	3.00	..	..	..	..	..	..	4.00,	..	1.00
..	..	4.00	..	..	..	..	..	..	5.35,	..	1.35
..	..	5.00	..	..	..	..	..	..	6.65,	..	1.65

The varieties of vegetable seeds listed have been selected with great care and thoroughly tested. We are constantly adding new and improved kinds as come to our notice, but offer no old variety under a different name as a novelty. Should any customer desire seeds not listed we will be pleased to procure them.

ASPARAGUS.

Fr., Asperge—GER., Spargel.

Sow the seed early in the spring in drills about one inch deep. In the fall or succeeding spring, the plants may be set in beds about one foot apart each way and the crown six inches below the surface. The soil should be rich and deeply cultivated to secure a good crop. Time can be saved by purchasing roots.

Pkt. oz. $\frac{1}{4}$ lb. lb.

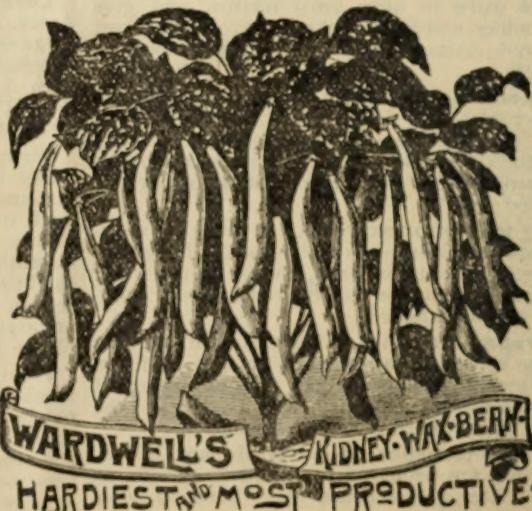
✓ Conover's Colossal. Large and of rapid growth... 5 10 20 60
Palmetto. About the same size as Colossal, but earlier. Shades on the bright green in color .. 5 10 20 75

BEANS.

Dwarf Wax Varieties.

Fr., Haricot—GER., Bohne.

Plant in succession—from April to August—in drills two inches deep, and from 18 to 24 inches apart.



**For Asparagus Roots,
and Miscellaneous
Plants and Vines**

See Page 26.

BEANS—Continued.

	Qt.	Pk.	Bu.	Qt.	Pk.	Bu.	
Wardwell's Kidney Wax. A robust, hardy variety, yielding a heavy crop of large, unusually handsome, wax-like pods. They are fleshy, tender and excellent, and are ready for the table earlier than many wax varieties.	25	1	75	Dutch Case Knife. Clear white, kidney shape, excellent quality, green or dry	25	1 60 6 00	
Bismarck Black Wax. Pods medium length, waxy-white color	25	1	75	6 50	Horticultural or Speckled Cranberry. For shell beans	25	1 50 5 50
Davis White Kidney Wax. When young the pods are very brittle	20	1	50	5 00	Large White Lima. The well-known standard	25	1 75 6 50
Flagolet Scarlet Wax. Pods very long and large	25	1	75	6 00	Lazy Wife. Excellent for winter use	25	1 60 6 00
Golden Wax. The well-known standard	25	1	75	6 50	Old Homestead. With showy pods, which are most excellent for snaps	25	1 75 6 50
Prolific Black Wax. No one can afford to plant the old black wax	25	1	75	6 50	Scarlet Runner. Cluster of showy, bright flowers	30	
White Wax. Very desirable for snaps or pickles	20	1	50	5 00	White Creasback. In good soil wonderfully productive	25	1 75 6 50

Green Podded Varieties.

Burpee's Stringless. The pods are a rich green, very round and straight	20	1	50	5 00
Bush Lima, Dreer's. The best of the Dwarf Limas	30	1	75	6 00
Bush Lima, Burpee's. A bush form of the true Large Lima	30	1	75	6 00
Bush Lima, Henderson's. A dwarf form of the Small Lima	30	1	75	6 00
Early Mohawk. This sort can be planted earlier than any other kinds	20	1	50	5 00
Horticultural Dwarf. This is one of the best varieties for use shelled green	20	1	50	5 00
Improved Round Pod Valentine. For snaps there is nothing superior to this variety	20	1	25	4 50
Long Yellow Six Weeks. Pods long, straight, narrow, handsome	20	1	25	4 50
Refugee, or Thousand to One. For late planting and for use as pickles	20	1	25	4 50
White Navy Field	15	1	00	3 00

Pole or Running.

Cut Short or Corn Hill. Very popular for planting among corn	25	1	50	5 50
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Dutch Case Knife. Clear white, kidney shape, excellent quality, green or dry	25	1 60	6 00
Horticultural or Speckled Cranberry. For shell beans	25	1 50	5 50
Large White Lima. The well-known standard	25	1 75	6 50
Lazy Wife. Excellent for winter use	25	1 60	6 00
Old Homestead. With showy pods, which are most excellent for snaps	25	1 75	6 50
Scarlet Runner. Cluster of showy, bright flowers	30		
White Creasback. In good soil wonderfully productive	25	1 75	6 50
Early Dutch Case Knife. This variety is of quick growth, producing large flat pods early in the season. These are six to seven inches in length, one-half inch wide, and quite brittle when gathered young for snapshots. Being white-seeded, it is excellent to grow dry-shell beans for winter use. Pkt. 10c.			
		25	1 60

BROCCOLI.

	Oz.	1/4 lb.	Lb.
Early Purple Cape. Produces heads very nearly like Cauliflower	35	1 00	

BUSSELL'S SPROUTS.

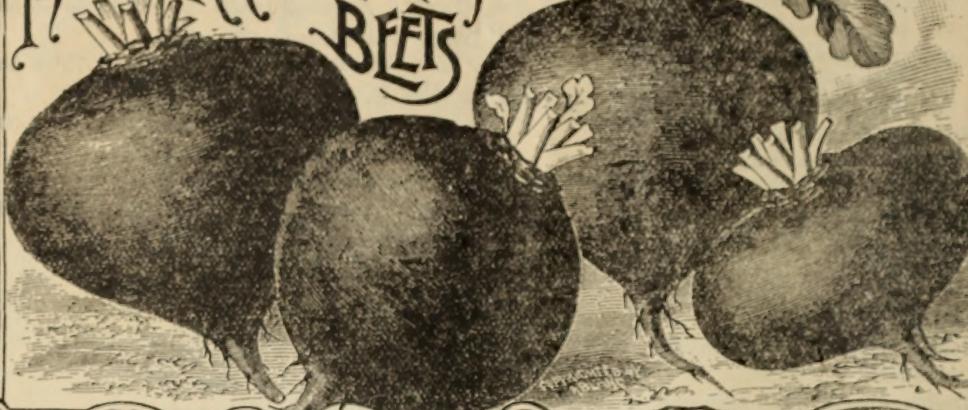
Carter's Perfection. The sprout becomes tender when touched by frost	20	60
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QUALITY**OUR FIRST
CONSIDERATION**

To that alone is due the success of our steadily increasing business.

Our Aim is to Please.

The MARKET GARDENERS BEETS



BASTIAN'S
BLOOD TURNIP

ECLIPSE

EDMAND'S
EARLY TURNIP

EXTRA EARLY
EGYPTIAN

BEETS.

FR., Betterhave—GER., Runkelruebe.

For early use sow as soon as ground is fit to work, in drills a foot apart and two inches deep. For general crop sow first week in May.

	Oz.	4 lb.	Lb.
Bastian's. Fine and early	10	20	50
Crosby's Egyptian Blood Turnip. Beet round, as early and of better quality	10	20	50
Dewing's Early Blood Turnip. A popular strain	10	20	50
Early Blood Turnip. A popular old standby	10	20	50
Eclipse Blood Turnip. Extremely early, round, blood-red	10	20	50
Edmand's Early Blood Turnips. A fine strain of very dark Blood-Turnip Beet	10	20	50
Egyptian Blood Turnip. Very quick growing; flattened Blood-Turnip	10	20	50
Long Smooth Blood. A large and excellent late variety	10	20	50

Mangel and Sugar Beets.

Golden Tankard Mangel Wurtzel. Most popular; clean, handsome

15 35

	Oz.	4 lb.	Lb.
Long Red. The standard; immense size	15	35	
Red Globe. Red skin, globe shape, smaller than Yellow Globe	15	35	
Sugar, Lane's Improved. American favorite for cattle feeding	15	35	
Sugar, Klein Wanzeben. Contains the largest percentage of sugar	15	35	
(Five pounds of Mangel or Sugar Beet for \$1.00; charges paid by purchaser.)			

CARROTS.

FR., Carrotte—GER., Mohore.

American grown Carrot seed is the best in the world. The Carrot thrives best in a light, rich, deeply tilled soil. For early use, sow as soon as the ground can be worked. For general crop sow any time from early spring until June 10th.

Chantenay. One of the finest in quality for table use	10	20	40
Danver's Half Long. A great favorite; rich dark orange	10	15	35
Early Scarlet Horn. Very popular; standard early	10	20	45
Half Long Stump Root Nantes. For shallow soils	10	20	45
Improved Long Orange. A very fine strain; good keeper	10	15	40
Oxheart Orange, or Guerande. Smooth and handsome, splendid quality	10	15	40

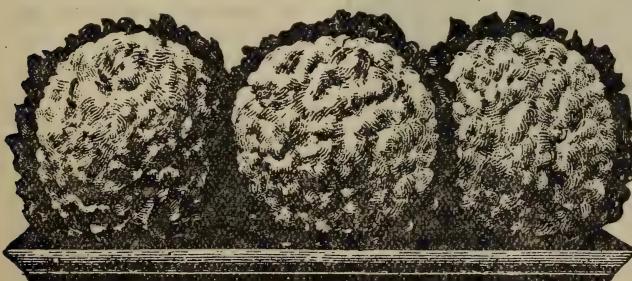
CABBAGE.

FR., Chou Pommes.
GER., Kopf kohl.

The early varieties of cabbage should be sown in hot beds about six weeks before ground would be fit to work out of doors. As soon as weather permits, transplant in rows three feet by eighteen inches. Winter cabbage should be sown out of doors at such time as would produce good plants for setting from 1st to 20th of June.



	Oz.	1/4 lb.	Lb.	Early Jersey Wakefield.	Oz.	1/4 lb.	Lb.
All Seasons. Fine, large heads; quite early and long standing.	20	60	1 50	Henderson's Early Summer. A fine large hard-heading variety.	20	65	1 75
Autumn King. This is an extremely large and solid-heading variety.	20	75	1 75	Henderson's Succession. Large flat-heads, similar to All Seasons.	20	60	1 60
American Drumhead Savoy. The best of all the Savoys.	20	60	1 60	Large Late Drumhead. A sure heading sort, enormous size.	20	60	1 60
Charleston Large Wakefield. A strain of Wakefield in which the plant is larger and a little later.	20	60	1 75	Marblehead Mammoth Drumhead. Large coarse head, of poor quality.	20	50	1 50
Early Flat Dutch. Round, flat.	20	60	1 60	Mammoth Rock Red. Large solid heads, averaging ten pounds each.	20	65	1 75
Early Large York. About ten days later.	20	60	1 60	Premium Late Flat Dutch. The well-known and popular standard variety.	20	60	1 50
Earls Etampes. Extremely early and of good quality.	20	60	1 60	Red Dutch. The standard.	20	65	1 75
Early Jersey Wakefield (select). The most popular.	20	65	1 75	Red Drumhead. "Solid as a rock," deep red, of medium size.	20	60	1 60
Early York, Dwarf. Very early; small heart-shaped.	20	60	1 60	Stone Mason Drumhead. Of weak constitution.	20	60	1 60
Extra Early Express. The earliest of all; similar to Etampes.	20	60	1 60	Surehead. Always sure to head.	20	60	1 60
Hollander. Heads nearly round in form, very hard and solid.	20	65	1 75	World's Beater, or Autumn King.	20	75	1 75

**CAULIFLOWER.**

FR., Choufleur.
GER., Blumen-kohl.

Soil and treatment adapted to the best results in growing cabbage, will be found equally successful with Cauliflower, except that the latter thrives a little better in cool moist situations.

Cauliflower—Continued.**Extra Selected Dwarf Erfurt.**

Similar in all respects to "Early Snowball" and nearly as early. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices.

Oz.

4 lb.

\$2.50

\$8.00

Early Snowball. The plants are compact with few narrow upright leaves, and are well suited for close planting. The heads are solid, compact, round, very white and curd like and developed earlier than those of any other sort.

2.50

CELERY.

Fr., Celeri—Ger., Sallertie.

Sow the seed in open ground as soon as fit to work, shear off the top once before transplanting, to insure stocky plants. Transplant from first of June to first of July, according to the season wanted for use.

Oz.

4 lb.

Lb.

Dwarf, Golden Self-blanching. Most popular of all.

20

\$1.75

Giant Pascal. The best keeper

20

1.50

Plume White. Fine for early use; silvery-white leaves

20

1.50

Turnip Rooted, Celeriac.

Smooth, round roots

15

1.25

CUCUMBER.

Fr., Concombre—Ger., Gurken.

Plant in hills four feet apart each way, in rich, warm, loamy soil. Do not plant till all danger of frost is over.

Boston Pickling. Unsurpassed for pickling

15

\$1.50

Early Cluster. A short, prickly

15

1.40

seedly variety

15

1.40

Extra Long White Spine.

**Improved Long Green.**

Oz.

4 lb.

Lb.

✓ Japanese Climbing. Will climb if given support; large, thick fruit

20

60

1.75

✓ Jersey Pickle. Fine, long, slender fruits for pickling

15

50

1.50

✓ Long Green Improved. A fine strain; dark green, 12 to 16 inches long

15

50

1.50

✓ Nichol's Medium Green. Fruits of medium size; full at both ends

15

50

1.50

✓ Thorburn's Everbearing. Vines bear continuously; fine quality

15

50

1.50

✓ Westerfield's Chicago Pickling. The true Westerfield strain

15

50

1.50

✓ West India Gherkin. For pickling only

15

60

1.60

✓ White Spine, Extra Long. Grows 12 inches long

15

50

1.50

✓ White Spine, Evergreen. A fine strain

15

50

1.50

✓ White Spine, Arlington. The Boston favorite

15

50

1.50

EGG PLANT.

Should be started in a hot-bed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the Tomato.

✓ Early Long Purple. Much earlier than the large N. Y. Purple

20

50

1.75

✓ New York Improved Purple. Leading market variety

35

1.00

3.50

✓ New York Improved Spineless. Free from the sharp spines natural to this plant

35

1.00

3.50

ENDIVE.

Fr., Chicoree Endive.

Ger., Endivien.

Sow and cultivate same as lettuce. It is one of the best salads for fall and winter use.

✓ Green Curled-ed Winter. Leaves finely cut, giving the plant a rich mossy appearance

15

40

1.00

✓ Moss Curled. Leaves much finer cut than Green Curled

15

40

1.00

**Extra Long White Spine.**

Early Frame, or Early Short

Green. For slicing or pickling

15

45

1.40

Moss Curled. Leaves much

finer cut than Green Curled

15

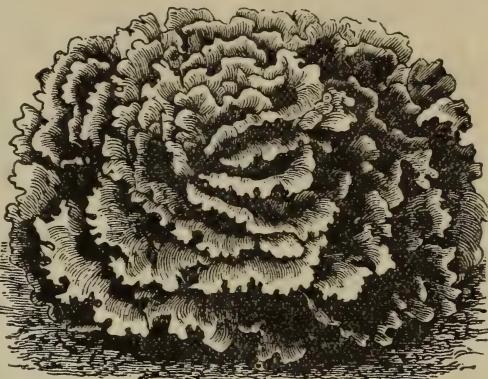
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1.00

KALE OR BORCOLE.

Kale or Borcole may be grown in almost any soil. The varieties are all extremely hardy, and are best when touched by frost.

	Oz.	4 lb.	Lb.
✓ German Green Curled. The leaves are curly, bright green, very tender	15	35	1 00
✓ Green Curled, or Scotch, Tall. Beautiful plant about two and a half feet tall	15	35	1 00



KOHL RABI.

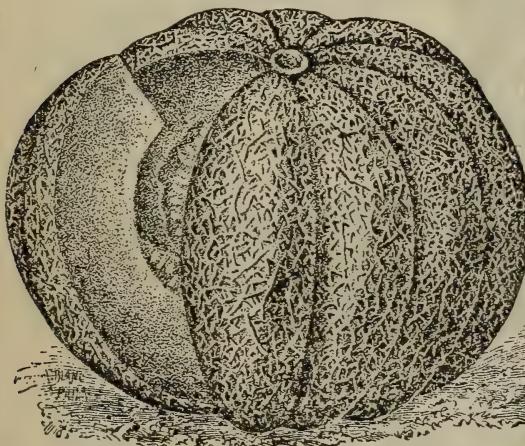
Treat much like Cabbage, except that it is difficult to transplant, and does better if the seed is planted where the plant is to grow.

✓ Early White Vienna. The best for table use	20	50	
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✓ Purple Vienna. This variety is the most largely grown for table use	20	50	
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LEEK.

✓ American Flag. Hardy and of good quality	15	35	1 00
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Early Hackensack.

LETTUCE.

Fr., Lettue—Gér., Laitich.

Sow in autumn or very early spring for early use, and in succession during the spring months for late crop. It bears transplanting and is improved by it.

✓ Grand Rapids. A most popular cutting lettuce for forcing	10	25	75
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✓ Hanson's Improved. One of the finest to grow for market during the summer months	10	25	75
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✓ Price Head, Early. Large loose head; green, tinged with brown	10	25	75
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✓ Silesia Early Curled. A lead-			
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Prize Head.

	Oz.	4 lb.	Lb.
✓ ing early sort; fine for cutting	10	25	75
✓ Simpson, Black Seeded. Larger than Simpson's Early Curled	10	25	75
✓ Simpson, Early Curled. Fine, loose heads; tender	10	25	75

MELON—MUSK.

Fr., Melon—Gér., Melone.

✓ Bay View. Oblong melons of large size; thick fleshed	15	40	1 00
✓ Chicago Market. A favorite type of "Nutmeg Melon" in Chicago	15	40	1 00
✓ Champion Market. A splendid variety of the Netted Gem type	15	40	1 00
✓ Extra Early Grand Rapids. Large; very early; quality inferior	15	40	1 00
✓ Early Green Citron. A small, round melon, valuable on account of its extreme earliness	15	40	1 00
✓ Emerald Gem, sweetest of all melons	15	40	1 00
✓ Fine Netted Nutmeg. Round; heavily netted	15	40	1 00
✓ Green Nutmeg. A popular old early variety	15	40	1 00
✓ Hackensack. Extra Early Improved. Ten days earlier than Hackensack	15	40	1 00
✓ Hackensack. Large size; flattened at both ends	15	40	1 00
✓ Jersey Belle. Extra early; of good size; an enlarged Jenny Lind	15	40	1 00
✓ Jenny Lind. Small, early flattened	15	40	1 00

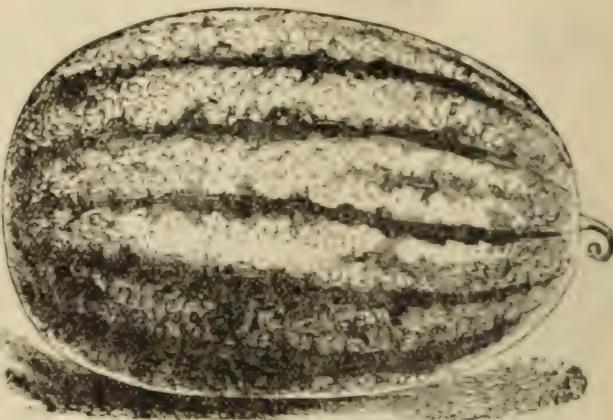
MELON MUSK—Continued.

	Oz.	4 D.	1 lb.	shape, of large size	Oz.	4 D.	1 lb.
✓ Long Island Beauty. This variety ripens as early and is similar to the Hackensack.	15			Perfection. Same as Princess	15	40	1 00
Montreal Market. Of immense size	15			Paul Rose. An ideal melon	15	40	1 00
Miller's Cream. Popular in the West; fine flavor	15			Pomegranate	15	40	1 00
Melrose. Rich light-green flesh, shading to salmon	15			Rocky Ford. This has become one of the most popular of small or basket melons	15	40	1 00
Netted Gem. Oblong	15			Surprise. Smooth cream colored skin; flavor rather inferior	15	40	1 00
Osage Green Fleshed. Delicous pea-green flesh	15			Shumway's Giant. A mammoth variety	15	40	1 00
Princess. Handsome; nutmeg				Tip-Top. Smooth skin; sweet and juicy	15	40	1 00

MELON—WATER.

Fr., Melondeau—Ger., Wassermelone.

Cole's Early. Extra early, but thin skinned; green, with white stripes	10	20	50
✓ Cuban Queen. The old favorite	10	20	50
Citron; for preserving	10	20	50
Duke Jones. A famous sweet Southern melon	10	20	50
Dixie. A famous oblong Southern melon; good shipper	10	20	50
Florida Favorite. An oblong melon; of fine flavor	10	20	50
✓ Ford-Hook Early. Earliest large melon	10	20	50
✓ Georgia Rattlesnake. A large oblong melon	10	20	50
Gray Monarch, or Long White Icing. Very popular	10	20	50
Ice Icing, or Ice Rind, Dark Skin. Of round form; sugary flavor	10	20	50
Ice Cream. True white-seeded; oblong; luscious	10	20	50
Jumbo, or Jones. A great favorite in the South; rich flavor	10	20	50
Kolb's Gem. The great market melon; carries well, but of poor flavor	10	20	50
Kentucky Wonder. A popular market melon in the West	10	20	50

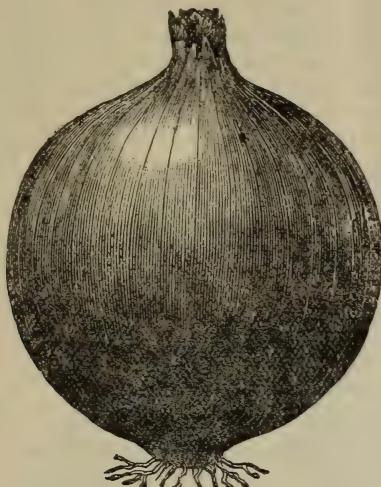


Kolb's Gem.

Kleckley's Sweet. Sweetest of all	10	20	50
Mountain Sweet. The old time favorite	10	20	50
Mammoth Iron Clad. Large oblong	10	20	50
Pride of Georgia. Round in form; skin stripped	10	20	50
Peerless. One of the best sorts for private gardens	10	20	50
Phinney's Early. An extra early; of medium size; oblong form	10	20	50
Sweet Heart. Oval form; mottled light-green skin; red flesh	10	20	50
Seminole	10	20	50
Scaly Bark	10	20	50
The Boss	10	20	50
Vick's Early. Extra Early; oblong; skin varies in color	10	20	50

ONION.

Fr., Oignon—GER., Zwiebel.



We take pride in the record of our fine strains of Onion Seed.

CULTURE—Onion seeds should be sown as soon as possible in the spring, even if the weather is cold, so the soil works up well. This gives them a good start ahead of the weeds, and before dry weather sets in. After thoroughly pulverizing the soil, sow thinly, 4 to 5 pounds to the acre, in drills one foot apart and about $\frac{1}{2}$ -inch deep, in strong land, well manured. When well started, say four inches high, thin out to stand three or four

inches apart in the drills, keeping them well hoed and free from weeds.

Onions delight in rich, deep sandy loam, and succeed well if grown for a succession of years on the same ground. Deep plowing prevents blight. To get heavy crops of finest shape and high colored bulbs, especially Danvers and other Globes, large quantities of well-rotted manure must be used—15 to 20 cords per acre would be none too much. If well-rotted manure is not to be had, use high grade commercial fertilizer containing a large percentage of potash. Onions keep best when ashes are used. When harvesting, protect the bulbs from rain or dew while in the open air or they will be discolored.

	Oz.	$\frac{1}{4}$ lb.	Lb.
Australian Brown. The greatest feature of this distinct new variety is its splendid keeping quality	10	25	75
Extra Early Red Flat. Matures very early, yields abundantly, and is of mild flavor	10	25	75
Large Red Wethersfield. This is the standard and market variety over a large section of the country	15	35	1 00
Large Red Globe, Southport. Brings the highest price on market and is very profitable	15	40	1 25



Crop of White Portugal Onion Seed
at Terminous, California.

ONION -Continued.

	Oz.	4d.	Lb.		Oz.	4d.	Lb.
Mammoth Silver King. Skin silvery white; flesh pure white, very tender	15	50	1 60	teen inches in circumference	15	35	1 00
New Queen. White or Extra Early Bartletta. For pickling	15	50	1 60	White Portugal, or Silver Skin. This is the standard white	15	50	1 60
Southport White Globe. Owing to its large size, it is later in ripening than the White Portugal	15	50	1 60	Yellow Globe Danvers. Our strain is most carefully selected	15	35	1 00
Spanish King, or Prize Taker. It is of immense size, measuring from twelve to eight				Yellow Danvers. A fine, productive variety of medium size	10	25	75

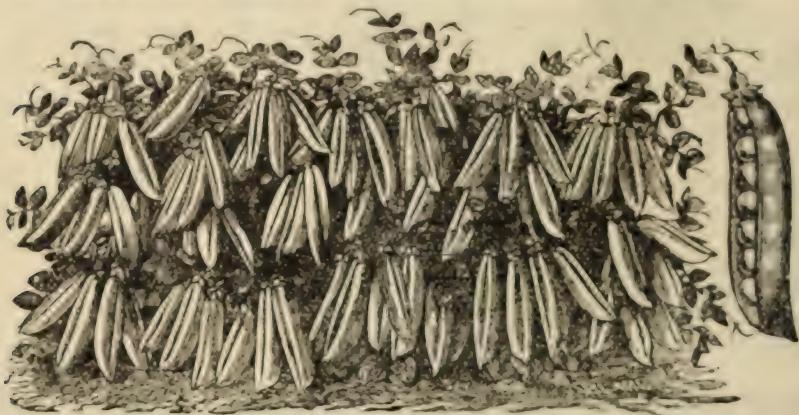
Onion Sets.

Yellow Bottom	Market Price
Red	"
White	"
Top, or Button Onion	"

PEAS.

Fr., Pois—GER., Erbsen.

Most of our Peas are grown for us especially, and cannot fail to give satisfaction.



American Wonder.

Extra Early Dwarf Varieties.

	Qt.	Pk.	Bn.
Alaska. Matures all the crop at once and is an invaluable variety for market gardeners and canners	20	1 50	5 00
Bliss' American Wonder. True Stock; extra fine	25	1 75	6 50
First and Best. The earliest and most even stock of White Extra Early Peas	20	1 50	5 00
Improved Tom Thumb. Vines dwarf, about nine inches high	20	1 50	5 00
McLean's Little Gem. When green it is very large, sweet			

	Qt.	Pk.	Bn.
and of delicious flavor	25	1 75	6 50
Nott's Excelsior. A most desirable sort for the market gardener, and unsurpassed for the home garden	25	1 75	6 50

	Qt.	Pk.	Bn.
Premium, Little Gem. Market gardeners use more of this sort than any other wrinkled pea	25	1 25	6 50

PEAS - Second Early Variety.

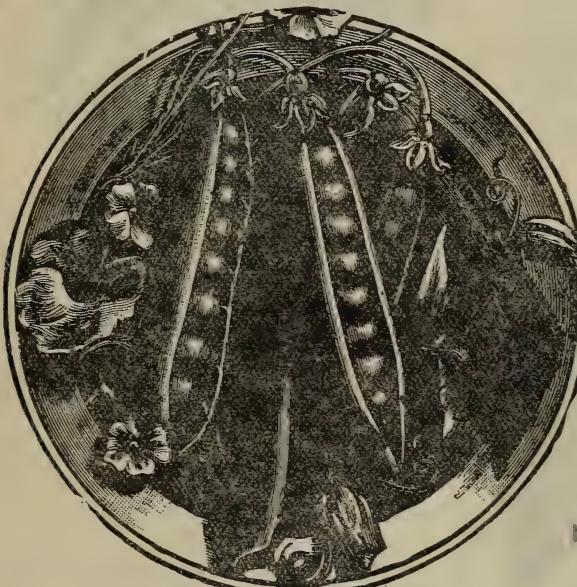
	Qt.	Pk.	Bn.
Bliss' Abundance. Deservedly popular	20	1 50	5 00
Bliss' Everbearing. Very prolific	20	1 50	5 00

PEAS—Second Early Variety—Continued.

	Qt.	Pk.	Bu.
Hosford's Market Garden.			
Very prolific	20	1 50	5 00
✓ Heroine. Medium early; long, well-filled pods	20	1 50	5 00
✓ Pride of the Market. Very popular	20	1 50	5 50
✓ Shropshire Hero. Well filled pods; very prolific	20	1 50	5 00

Late Varieties for General Crop.

✓ Black Eyed Marrowfat. An



Alaska Pea.

old time favorite; large handsome pods; enormous cropper	15	90	\$3 00
✓ Champion of England. The popular standard	15	1 00	3 50
✓ Large White Marrowfat. Similar to Black Eyed, but a little better quality	15	90	3 00
✓ Stratagem. By many this variety is considered the best of the English peas	20	1 50	5 00
✓ Telephone. Large peas, of rich sugary flavor	20	1 50	5 00
✓ Yorkshire Hero. The peas are of fine quality and will be preferred to any other by those who like a rich, marrow like pea	20	1 50	5 00

PARSLEY.

Fr., Persil—GER., Petersilie.

Seed germinates slowly and should be sown in early spring.

	Oz.	1/4 lb.	Lb.
Champion Moss Curled. The leaves are of a peculiar extra dark green color	10	20	50
Doubled Curled. Fine dwarf	10	20	50
Fern Leaf. Invaluable as a garnishing plant	10	20	50
Triple Curled. This is a most beautiful variety	10	20	50

PUMPKIN.

Fr., Potiron—GER., Kurbis.

King of Mammoth

This is the very best genuine strain of the true Mammoth Pumpkin

10 30 75

✓ Large Field. A very hardy and prolific variety

10 30 75

✓ Large Cheese, or Kentucky Field. It is an excellent keeping variety, with the flesh of exceptionally fine quality

10 20 50

✓ Large Tours, or Mammoth. The pumpkins attain an enormous size and will attract

great attention when placed on exhibition

10 30 75

Quaker Pie. A most prolific variety

10 30 65

Sweet, or Sugar. A handsome some prolific variety

10 30 65

Tennessee Sweet Potato.

Pear shaped fruits and good size

10 30 75

PARSNIPS.

Hollow Crown. A great crop—tender, sugary

05 15 40

Improved Guernsey. Roots very long

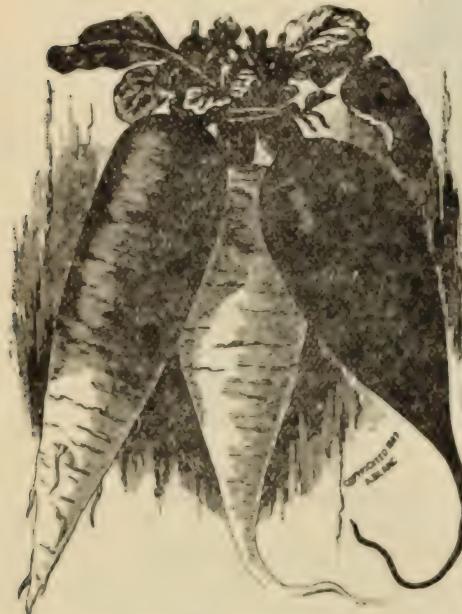
05 15 40

PEPPER.

Fr., Pimento — Ger., Sanischer Pfeffer

Start plants in hot-beds or in boxes in the house. Transplant when ground becomes warm and danger of frost is past.

	Oz.	1/4 lb.	Lb.
Large Bell, or Bull Nose.			
Large, mild; glossy red.....	20	50	\$1.50
Long Red Cayenne. Hot and pungent.....	20	50	1.50
Red Cherry. Small bright-red peppers; very hot	20	50	1.50
Ruby King. Especially fine for salads, stuffed for mangoes	20	50	1.50
Sweet Mountain, or Mammoth. Really identical with Bull Nose	20	50	1.50



Chartier, White Strasburg and half long deep scarlet.

RADISH.

Fr., Radis. Rave. Petite Rave — Ger., Rottig. Radies.

French Breakfast. Most popular, red, tipped with white; quick growing

Icecle. An excellent new long white variety

Improved Chartiers. Long; crimson, tipped with white. 10

Long Scarlet Short Top. The popular standard

10 20 45

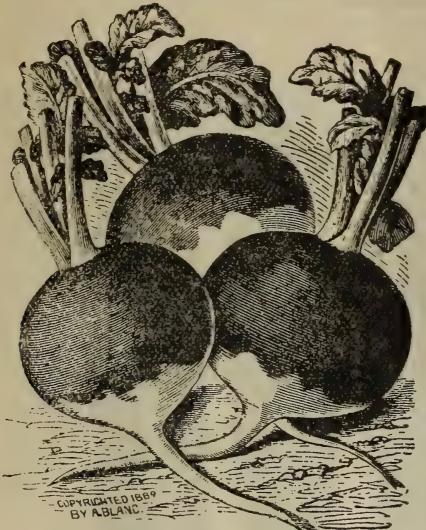
10 20 50

10 20 50

10 20 45

Large Bell.	Oz.	1/4 lb.	Lb.
Long White Vienna, or Lady Finger. Excellent	10	20	45
Long Bright Scarlet. Tipped with white	10	20	45
Scarlet Olive Shape. Original strain; quite early; very crisp	10	20	45
Turnip, Scarlet Globe, Vick's. We recommend this especially to gardeners whose markets demand a large, round, forcing radish	10	20	40
Turnip, Early Scarlet. The standard; small round, red	10	20	45
Turnip, Early Deep Scarlet. Deep scarlet turnip forcing radish; quick growing	10	20	45
Turnip, Early Scarlet White Tip. Brightest scarlet, tipped with white	10	20	45
Turnip, Early Scarlet White Tip Forcing. Also called Rosy Gem	10	20	45
Turnip, White. Both skin and flesh white; crisp and tender	10	20	45
Turnip, White Globe. White skin and crisp white flesh	10	20	45
White Olive Shape. White skin and crisp white flesh	10	20	45
Wood's Early Frame. Similar to Long Scarlet, but shorter roots	10	20	45
White Strasburg. A fine solid summer radish, of large size	10	20	45

RADISH—Continued.



COPRIGHTED 1889

BY ABLANC

Early Scarlet Turnip, White Tipped.

Fall and Winter Varieties.

	Oz.	4 lb.	Lb.
China Rose, Winter. Excellent quality; good keeper	10	20	
California Mammoth White Winter. Long; of immense size	10	20	
Long Black Spanish. Black skin; white flesh; keeps well	10	20	
Long White Spanish. White skin and flesh; keeps well	10	20	
Round Black Spanish. The favorite winter Rettig of the Germans	10	20	

SPINACH.

Fr., Epinard—GEE., Spinat.

For summer use, sow at intervals of two or three weeks from early spring to August.

	Oz.	4 lb.	Lb.
Bloomsdale. Is the most popular with our market gardeners	05	10	25
Long Standing Thick Leaved. Having all the good qualities of other sorts and continuing in condition for use much longer	05	10	25
Round Thick Leaved. Recommended for market gardeners	05	10	25
Special prices in large quantities to market gardeners.			

SALSIFY,

OR VEGETABLE OYSTER.

Fr., Salsifis—GEE., Bocksbart.

Sow in early spring, in drills fifteen inches apart, and thinned to six inches in the row.

Mammoth Sandwich Island.

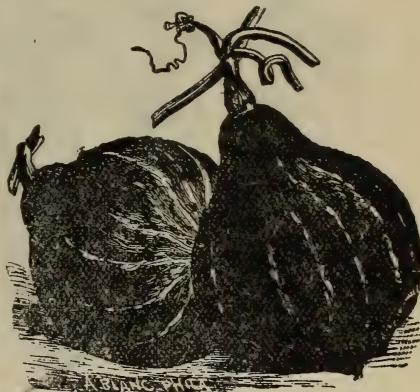
When cooked is a good substitute for oysters, having a very similar flavor

20 35 1 25

SQUASH.

Fr., Courge—GER., Kurbiss.

Plant as soon as the weather becomes settled and warm, the bush sort in hills 4 feet apart each way, and the large growing ones 8 feet apart each way.

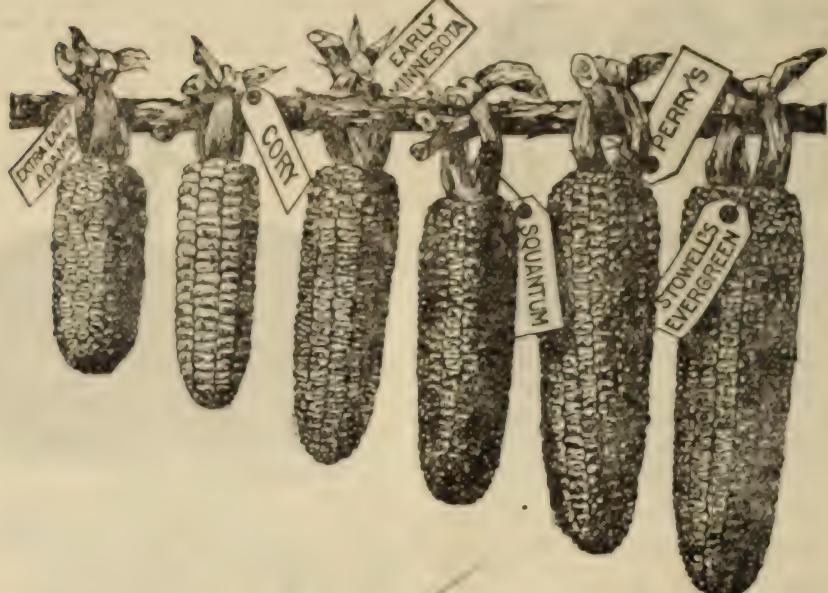


Hubbard Squash.

	Oz.	4 lb.	Lb.
Boston Marrow. A fall and winter variety, very popular	10	25	75
Early Summer Crookneck. The old standard sort	10	25	75
Essex Hybrid, or Hard Shell Turban. A good squash for fall and winter use	10	25	75
Fordhook. Bright yellow outside and straw yellow within	10	25	75
Improved Hubbard. The well known popular standard winter squash	10	35	1 00
Marblehead. An excellent variety resembling the Hubbard	10	25	75
Mammoth Chili. The largest of all squashes, growing to an immense size	10	35	1 00
Mammoth White, or Bush Scallops. The fruit is a beautiful clear waxy white	10	25	75
Prolific Marrow. Shaped somewhat like the Boston Marrow, but is a decided improvement on it, being much earlier and more productive	10	25	75
Vegetable Marrow. Skin a greenish yellow, flesh white, soft and of rich flavor	10	25	75
Warty Hubbard. This is similar in size and quality to the well known Hubbard	10	35	1 00
Yellow Bush Scallops. Differs from the white only in color	10	25	75

SWEET CORN.

Fr., Mais Gen., Welschkorn.



	Qt.	Pk.	Bu.
✓ Adam's Extra Early. This is not a true Sweet Corn	20	\$1 25	\$4 00
Cory White Cob and Grain. Mammoth extra early	20	1 25	4 00
Cory, Red. Standard early variety	20	1 25	4 00
✓ Crosby's Early. A most excellent variety, remarkably early and of best flavor	20	1 25	4 00
✓ Country Gentleman. Fine quality, and irregular arrangement of the crowded, slender, deep grain	25	1 50	5 00
✓ First of all. This is the earliest of all sweet corn	20	1 25	4 00
✓ Hickox Improved. Very prolific, ordinarily every stock will have two large, fully developed ears	25	1 50	5 00
✓ Minnesota. Ears larger than the Cory and matures between that variety and the Crosby	20	1 25	4 00
✓ Mammoth Late. It is of excellent quality	25	1 50	5 00
✓ Mammoth Sugar. An old and excellent table sort	25	1 50	5 00
Perry's Hybrid. An excellent second-early variety	20	1 25	4 00
Shaker's Early. Slightly later than the Crosby	20	1 25	4 00

	Qt.	Pk.	Bu.
✓ Stowell's Evergreen. The standard main crop variety	25	1 50	5 00
✓ Squantum. A fine second early variety	20	1 25	4 00
Zig Zag Evergreen. Similar to Stowell's, but grains irregular on ear	25	1 50	5 00

TURNIPS.

Fr., Navel - Gen., Rube.

	Oz	4 lbs	Lb.
✓ Aberdeen Purple Top. For both table and stock feeding	10	20	50
✓ Extra Early Purple Top Milan. The earliest in cultivation	10	25	75
✓ Early White Dutch. Popular market variety	10	20	50
✓ Improved Golden Ball. Very tender and of fine flavor	10	20	50
✓ Purple Top White Globe. A fine globe shaped table turnip	10	20	50
✓ Purple Top Strap Leaf. Standard early variety	10	20	50
✓ Sweet German. Flesh hard and crisp	10	20	50
✓ White Egg. Oval, with thin white skin	10	20	50
✓ Yellow Globe. Fine for table and stock feeding	10	20	50

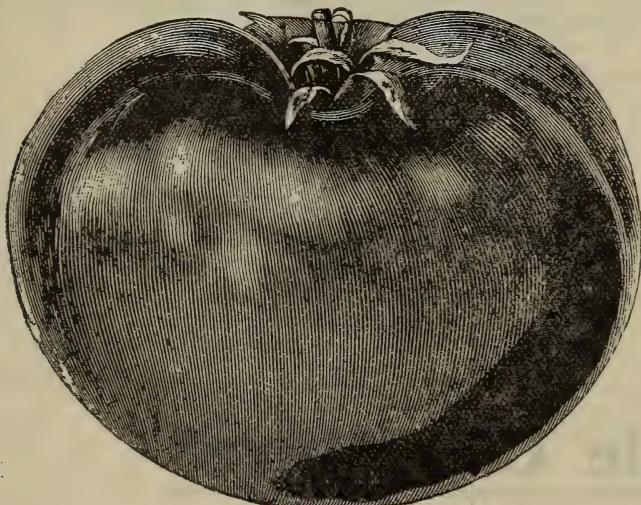
TOMATOES.

Fr., Pomme d' Amour—Ger., Liebesapfel.

DWARF CHAMPION—We make a specialty of this very distinct variety. A single plant of it was first found nearly fifteen years ago in a field of Livingston's Acme. Its dwarf, compact and upright growth enables it to be planted 2 or 3 feet apart each way. Heavy manuring, instead of producing a superabundant growth of vine (as in many varieties), increases the yield and size of the fruit. In form and color they resemble Acme—smooth and symmetrical in shape, ripening close around the stem. Matures the fruit early, is very productive, medium large and crowded close together on the branches; foliage an unusually dark green. True stock.

Pkt. 5; $\frac{1}{2}$ oz. 15; oz. 25; $\frac{1}{4}$ lb. 75; lb. \$2.50.

	Oz.	4lb.	Lb.
Ponderosa, or "Monstrous 400"			
This is the largest fruited tomato in cultivation and of fine quality for slicing	30	75	2 50
Red Pear. Used for preserves and to make "tomato figs"	20	50	1 75
Strawberry, Husk or Ground Cherry	20	60	1 75
Stone. Large, solid, handsome scarlet fruits, highly esteemed for market and canning	20	50	1 50
Trophy. Very large, solid and generally smooth; selected strain	20	50	1 60
Yellow Plum. Esteemed for preserves	20	60	1 75



Dwarf Champion.

	Oz.	4lb.	Lb.
Ignotum. Smooth, solid, bright red; uniformly large	20	50	\$1 50
✓ Imperial. Large purple-fruited, early	20	50	1 50
✓ Livingston's Beauty. Large, solid, smooth tomato; purplish pink	20	50	1 50
✓ Livingston's Favorite. Bright red, smooth tomato of good size	20	50	1 50
✓ Livingston's Acme. The well known standard bright-pink	20	50	1 50
✓ Mikado. Large-fruited purple; potato leaf	20	50	1 50
✓ Matchless. A large, bright red tomato	20	75	2 25

White's Excelsior. The vines are of a dark green, grow rapidly and to a great size, bearing a heavier crop than any other variety and continues bearing until killed by frost. The fruit is dark or purple red, very large and in great clusters, and retain their size until the last end of the season. The seed cavity is small, the skin is tough, will bear long shipments. Our seed is direct from the originator

HERBS.



Herbs in general delight in a rich, mellow soil. Sow seeds early in spring in shallow drills one foot apart; when up a few inches thin out to proper distance or transplant. Care should be taken to harvest them properly; do this on a dry day, just before they come into full blossom; dry quickly in the shade, pack close in bottles or dry boxes to exclude the air entirely.

	Pt.	Oz.	M.D.
Anise	05	25	1 00
Balm	05	20	
Basil (sweet)	05	15	
Borage	05	15	
Caraway	05	15	75
Coriander	05	20	
Catnip, or Cat mint	05	35	
Dill	05	25	75
Fennell	05	15	

	Pt.	Oz.	M.D.
Horehound	05	20	
Hyssop	05	20	
Lavender	05	15	
Majoram (sweet)	05	35	1 25
Rosemary	05	30	
Rue	05	15	
Sage, Broad Leaf	05	45	1 50
Summer Savory	05	15	
Saffron	05	15	
Thyme	06	45	1 50
Tansey	05	15	
Wormwood	05	15	

BIRD SEED.

	Postpaid, per Lb
Hemp	20
Canary	20
Rape	20
Mixed, hemp, rape and canary	20

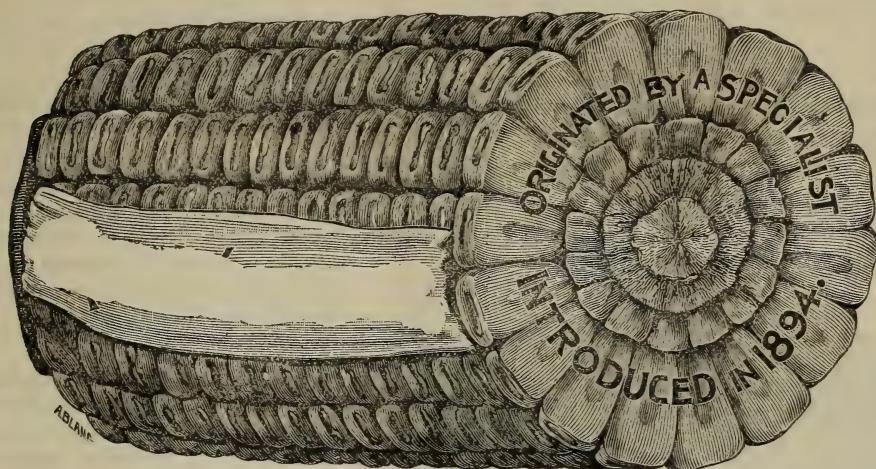
Eagle Claw Hand

Fodder Fork.

The Only Tool ever invented and manufactured that will handle Corn Fodder successfully. Self dump. Does not pierce the stock. Handles fifty stocks (or an arm load) at a time as fast as a man can pitch. Binds the fodder, straw, brush, etc., as you handle it. Saves time, twine, clothing and health. No getting wet while handling snowy or wet fodder.

Price \$1.50 each.

SEED CORN.



Iowa Gold Mine.

Our Farm Seeds are uniformly of the very best grade. They have been grown especially for seed, carefully selected and thoroughly cleaned. The prices quoted include bags and delivery to any freight depot in Council Bluffs.

The varieties of Field Corn we offer are the best in general use. They are all well matured, cured and shelled with great care. We test all varieties before sending out, that there may be no doubt as to vitality if properly planted and the conditions are favorable.

To avoid delay when ordering late in the season, it would be well to mention your second choice, or state whether we shall send a sort adapted to your locality or refund the money, provided we are sold out of your first choice at the time your order arrives.

It only costs about 25 cents an acre to use our Carefully Selected and Tested Seed Corn. Is it wise to risk doubtful corn from the crib?

Improved Leaming Corn—This popular corn is too well known to enter into a description of its merits here. Suffice it to say: That it is a very uniform, medium-sized, very early (maturing in 90 to 115 days), very heavy, long eared corn. With stock growing medium tall and very thick and strong, with a large amount of foliage. During the past two years this corn has come to the front in the dairy regions of the northern U. S. and in the Dominion, as a hard to beat ensilage corn. During the past winter and spring we had a

very large trade in this variety for ensilage corn. We have nice pure seed of it.

Prices, peck 40c; half bushel 75c; bushel \$1.25; 5 bushels \$5.50; 10 bushels \$10.00.

St. Charles White—A large growing red cobbed white dent corn, with a profuse growth of foliage. Originated and much esteemed in the vicinity of St. Louis, Mo., and in the south as a general crop sort, and quite popular in the north as an ensilage corn. We have nice pure seed.

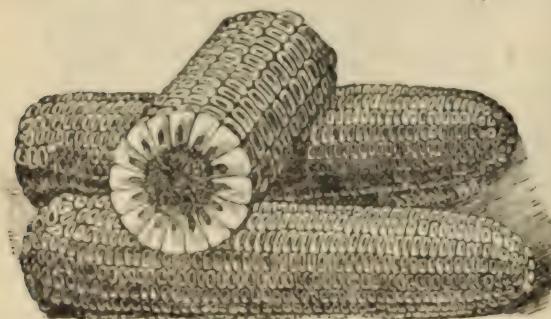
Prices, peck 35; half bushel 60; bushel \$1.00; 5 bushels \$5.00; 10 bushels \$9.00.

Iowa Silver Mine—Stock grows to a height of about seven or eight feet, and sets the ears about three and one-half to four feet from the ground, just the right height for easy picking. One peculiarity we noticed in going over the field was that there were no barren stocks; every one had an ear, many stocks had two or three good ears, and the originator says that has been characteristic every year that he has grown it. The type is very even. From Minnesota to Florida, from Massachusetts to California, it will yield a paying crop where other varieties are grown at a loss. It is in every way a distinct type of corn and possesses many of the features which have made the Iowa Gold Mine so popular, while the ear is larger. It is hardy and a wonderful resister of drouth.

Prices, peck 40c; half bushel 75c; bushel \$1.25; 5 bushels \$5.50; 10 bushels \$10.00.

SEED CORN—Continued.

Iowa Gold Mine—A popular yellow dent corn originated in Iowa. It has very long grain and very small red cob. Matures in about 95 days, and has given fine satisfaction throughout the corn belt. Our seed was grown from direct headquarters stock. Prices peck 40c; half bushel 75c; bushel \$1.25; 5 bushels \$5.50; 10 bushels \$10.00.



Legal Tender.

Legal Tender—This is a grand good variety, introduced by Nims Bros. of Iowa, who have taken great pains for a number of years in grading up and perfecting a variety that is characteristic for extremely deep grain, small cob, well-filled ends and of good size. It has probably taken more prizes and premiums at the State and County fairs than any other variety of yellow corn; in fact it is a great premium taker and general favorite. It is a good yielder, maturing so as to ripen out of danger of frost in any part of the corn-growing region.

For several years past we have made a specialty of this corn for a yellow variety. For a bright yellow it is wonderfully satisfactory and immensely popular. It will mature in 100 to 110 days, insuring solid corn before frost, deep grain, small cob, well filled at end, of beautiful golden yellow and heavy yielder.

Price, $\frac{1}{2}$ bushel 40c; $\frac{1}{2}$ bushel 75c; 1 bushel \$1.25; 10 bushels \$10.00.

Pride of the North—An extra early yellow dent corn; too well known to warrant us giving a detailed description of it here. Suffice to say we have genuine pure seed.

Prices, peck 40c; half bushel 75c; bushel \$1.25; 5 bushels \$5.50; 10 bushels \$10.00.

CLOVER AND GRASS SEEDS.

Medium Red Clover—The standard everywhere for hay or pasture. Per lb. 30c; 3 lbs. 75c, postpaid; per bushel \$7.50.

Mammoth Red Clover—For hog pasture or as a fertilizing crop. Too coarse for hay. Per lb. 30c; 3 lb. 75c; per bus. \$7.50.

Alsike Clover—Unexcelled for hay and a wonderful cropper. It is a perennial, very hardy, sweet, fragrant and desirable also for pasture. Does well on wet land which is unfit for any other clover. Per lb. 35c; 3 lbs. 90c; per bus. \$9.50.

Alfalfa, or Lucerne Clover—Very popular in many portions of the country, and it is especially of value in all parts of the west, northwest and south. Under proper management it yields ten to twelve tons to the acre. All classes of stock are exceedingly fond of it. The roots are so long and grow so deep frost cannot heave or throw them out in winter. One sowing will stand for twenty years, and instead of impoverishing the soil, enriches it. Grows on the thinnest sandy soil and thrives in the greatest drouth. Sow broadcast about 30 lbs. to the acre. Comes up very spindly and slowly, and it is necessary to mow the weeds to give it light, but when once established the weeds will be smothered. Postpaid per lb. 35c; 3 lbs. 90c. Per bu. market price.

White Dutch Clover—Desirable in pasture mixtures. Also used largely for lawns, as it makes a close sod. Lb. 40c; 3 lbs. \$1.00. By freight 10 lbs. \$2.50; bushel \$12.50.

Crimson Clover—Also called GIANT INCARNATE. An annual variety of special value for sowing in corn for fall pasture or soiling. Per lb. 25c; 3 lbs. 65c; per bushel \$6.00.

Sweet Clover—Also called HONEY or BEE CLOVER. Of delightful fragrance and much liked by bees. Per pkt 5c; lb. 50c. By freight or express, 5 lbs. or more @ 25c per lb.

Timothy—Used universally for hay. Per lb. 20c, 3 lbs. 50c; bushel \$1.75.

Kentucky Blue Grass—Unexcelled for lawns and pastures. Our seed is new crop and the best grade of fancy cleaned. Per lb. 20c, 3 lbs. 50c; bushel of 14 lbs. \$2.00.

CLOVER AND GRASS SEEDS.

(Continued)

Fancy Red Top—Used for wet land. Our seed is the best grade of fancy cleaned. Per lb. 25c; 3 lbs. 50c; bushel of 14 lbs. \$1.60.

Orchard Grass—One of the most valuable of pasture grasses. Grows well also in the shade. Per lb. 30c; 3 lbs. 80c; bushel of 14 lbs. \$2.50.

Meadow Fescue—Also called ENGLISH BLUE GRASS. Succeeds on all soil, but gives best results on moist soil. Per lb. 30c; 3 lbs. 75c; by freight 10 lbs. or more @ 12c.

Early Amber Cane—This popular and well known variety is the earliest and makes the finest of amber syrup and good sugar. Succeeds well from Texas to Minnesota. Per lb. 15c; per bushel 75c.

Early Orange—A well known variety, well adapted to the south and west. It is from eight to ten days later than Early Amber. Per lb. 15c; bus. 75c.

Fodder or Forage Cane—Cane seed is also now largely grown for stock feeding. It yields heavy. It can be raised anywhere, and is sown extensively in dry sections, where tame grasses cannot be sown readily. Cattle, horses and sheep relish it greatly on account of its sweetness. For forage sow fifty pounds per acre. Market price.

Seed Rye—Rye does best on rich sandy soil, almost a sure crop every year; should be sown in August or September, either in drills or broadcast, at the rate of one to one and a half bushels per acre. Is raised both for pasture and grain. Per bus. of 56 lbs. 75c.

Navy Field Beans—Plant after danger of frost is past, in dry, light soil. Best crops are grown in rich soil; but beans do well in ordinary soil. Cultivate with one-horse cultivator, or a hoe, frequently, when plants are dry, but never when wet. Plant one and one-half bushels to the acre, in hills same as corn or in drills. Per lb. 15c; bus. \$2.50.

German Millet—Much better than common and yields much more. One of the best for hay or fodder crops; three to four feet high. A great yielder; large close heads. Per lb. 25c; 3 lbs. 50c; bus. of 48 lbs. \$1.00.

Common Millet—Not as tall as above, but some prefer it for horses. Per lb. 15c; 3 lbs. 40c; bus. 90c.

Hungarian—Preferred by some to millet. Per lb. 25c; 3 lbs. 50c. bus. 48 lbs. \$1.25.

Perennial Rye Grass—For permanent meadows or pastures. Per lb. 25c; 3 lbs. 65c. By freight, 10 lbs. or more @ 8c.

Red Kaffir Corn—This grows taller than the white; the stalks are slenderer, but more juicy and very leafy. Per lb. 15c; per 100 lbs. \$2.00.

White Kaffir Corn—It grows from four to five feet high, making a straight, upright growth. It has a stalky stem, with numerous wide leaves. Per 100 lbs. \$2.00.

Buckwheat, Common—Buckwheat should be sown about the 20th of June, broadcast, at the rate of from one to three pecks per acre. Per lb. 15c.

Buckwheat, Silver Hull—This improved variety is much better than the old sort. It is in bloom longer, matures sooner and yields double the quantity per acre. Per lb. 15c.

Buckwheat, Japanese—This new variety has been raised here with good results. The kernels are twice the size of any other buckwheat, of a rich dark brown color and manufacture a superior flour. Per. lb. 15c, postpaid.

Dwarf Essex Rape—This plant is extensively grown for forage. Farmers who raise much stock and desire to get young cattle, sheep, lambs or young hogs into favorable condition can do it most cheaply by growing this rape. Prepare the ground as for turnips, and sow as soon as frost is out of the ground; and is ready in about six weeks. Also sow in June or July, with a turnip drill, in rows $2\frac{1}{2}$ feet apart at the rate of $2\frac{1}{2}$ lbs. of seed per acre. It may also be sown broadcast at the rate of 3 or 4 lbs. to the acre. It is not used for hay, and when eaten down before it has made its full growth, it will grow up again with more or less vigor. Our stock is the TRUE ESSEX DWARF, and not the worthless annual. Postpaid, oz. 5c; $\frac{1}{4}$ lb. 15c; lb. 30c. By express or freight 10 lbs. 65c; 50 lbs. \$3.00; 100 lbs. \$5.50.

SEED POTATOES.

Extra Early Ohio—Fancy northern grown. This is our specialty in standard varieties. Don't plant Iowa grown stock when you can obtain these. Market Price.

Early Ohio—Grown in Iowa. Write for prices on late varieties.

SEED SWEET POTATOES.

Price subject to market changes. Write for price on large lots. We ship about April 12, usually.

SEED SWEET POTATOES—Continued.

Early Yellow Jersey—In spite of the many so-called new varieties, all of which we have tested, the Early Yellow Jersey holds the first place. The earliest, most productive, of short, "chunky" shape, and of the very best quality. Not stringy. Very few small ones.

Yellow Nansemond The old standby; by some growers considered equal to Jersey.

Vineless Sweet Potatoes—A novelty which has proved very popular in some places. Can be planted much closer, do not require the lifting or trimming of vines, and for this reason are more desirable than the older varieties. They are good keepers and of excellent quality as a table potato. Don't fail to try them.

Red Jersey and White Southern Queen

We can supply choice seed of these varieties, IF ORDERED BY APRIL 1ST.

SPELTZ.

The wonder grain from Russia.

Russia has given us *Bromus Inermis*, the most notable addition to our list of grasses in many years. She has come to the front with a grain which is fully demonstrated to be of extraordinary value for growth on poor soil and in drouthy sections. The chaff adheres to the grain when threshed. One South Dakota farmer says: "The Speltz did remarkably well. It is a wonderful 'stooler' and robust grower, yielding nearly 60 bushels to the acre." While the grain is of undoubted value for milling purposes, its present use will be confined to feeding, for which purpose it is very superior.

Large pkt., 5c; lb. 20c, postpaid. Market price.

BROMUS INERMIS.

Russian Forage Grass

Awnless Brome Grass.

This *Bromus*, on account of its strong perennial character, and its unusual drouth-re-

sisting powers, is the best grass we have for semi-arid regions of the Northwest. It will stand the longest drouth of all forage plants. Its running roots take a deep and permanent hold upon the land and it will replace in a large degree, the fast disappearing Bunch Grasses of Easter Oregon and Eastern Washington, where it has done well. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is a perennial and yields from four to six tons to the acre. Can be sown in the fall or spring. Sow twenty to thirty pounds per acre.

Per lb., postpaid, 30c; 100 lbs. \$12.50.

All prices on Field Seeds and Seed Corn are subject to market fluctuations.

Market prices and quotations on larger quantities given upon application.

Denison, Iowa, Sept. 21, 1903.

DEAR SIR:—You wrote me I should let you know how I liked the seed corn. I am well pleased with it and it is just as you told me when I was in your store. Every kernel of it growed. If I need any more seed this spring I shall buy of you again.

I wish you best success. Yours truly,

W.M. BERGSTADT.
Route No. 4.

Hatland, S. D., March 28, 1903.

DEAR SIR:—The two bushels of corn receiv-ed from you is very good seed. If your corn gets ripe here you will be sure to have a great sale next spring, for it is fine corn.

Yours truly,
JOHN NELSON.

Bee Supplies...

We carry a very large stock of Bee Supplies, which includes a full assortment of the articles necessary for handling bees in an up-to-date manner. We would request anyone who is specially interested in this line to write us for our complete Catalogue of Bee Supplies, the new edition of which will come out in the Spring.



SELECT

FLOWER SEEDS.

CHOICEST

WE DELIVER FREE, to any post office in the United States, **ALL FLOWER SEEDS** offered in this Catalogue.

Flowers are divided into three classes—Annual, Biennial and Perennial. The annuals are those flowers that bud, blossom and ripen their seed the first season and then die. They are valuable to both the amateur and professional gardener. To them we are mainly indebted for our brightest and best flowers in the late summer and autumn months. Biennials and Perennials are those flowers that live on for two years or more, and, with but few exceptions, do not blossom the first season.



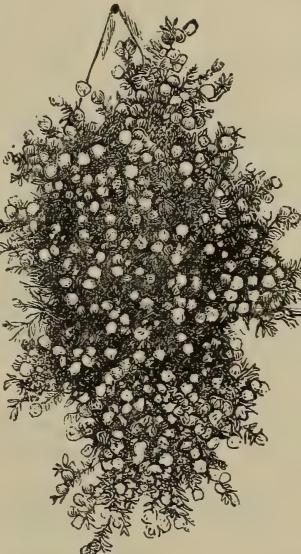
Ageratum.

Ageratum. Mexicanum. Blue. Half-hardy annual. Fine for bouquets, and useful for beds, borders and pots.

Pkt. 5c; Mixed Pkt. 5c.

Amaranthus. Strong growing ornamental plants for bedding purposes. Half-hardy annual.

Tricolor. (Joseph's Coat.) Beautifully variegated; foliage, scarlet, yellow and green. Pkt. 5c.



Sweet Alyssum.

Alyssum
The well-known and popular hardy border plant of easy cultivation. They have a delicate agreeable fragrance, and are very popular for bouquets.

Maritimum.
Sweet. Pkt. 5c.
Maritimum.
Little Gem. Pkt. 5c.

Aster. Very beautiful and popular half-hardy annuals growing from 10 to 18 inches high. For profusion of flowers and richness of display, the Asters are unrivaled.



Asters.

Crysanthemum. Flowered. Half-dwarf. White, Scarlet, Lilac, Rose. Mixed. Each, Pkt. 10c.

Giant Comet. Rose, Crimson, Light Blue, Snow White. Mixed. Each, Pkt. 10c.

German Quilled. Mixed. Pkt. 5c.
Jewel. Mixed. Pkt. 10c.

Sengle's Late Branching. Mixed. Pkt. 10c.
Truffaut's Paeony Perfection. White, Crimson, Light Blue, Rose, Mixed. Pkt. 10c.



Balsam. (Lady's Slipper. Touch-Me-Not.) Exceedingly handsome and attractive.

Tall Double White. Extra choice. Pkt. 10c.

Tall Double Camelia Flowered. Mixed Pkt. 5c.

Carnation. DIANTHUS CAROPHYLLUS. A well-known half-hardy perennial. Having flowers of delicious fragrance, which are large and beautiful. Grows one-half foot high. Extra Choice Double, Mixed. Pkt. 20c.

Common Double Mixed. Pkt. 10c.

Margaret. If sown early in the spring, will flower the first year. Double half dwarf. Mixed. Pkt. 10c.

Cosmos. Tall growing, showy autumn-blooming plants, which have gained rapidly in favor within the last few years, the mammoth varieties being especially fine.

Mammoth. Mixed. Pkt. 10c.

Canterbury Bells. (Campanula.) One of the best known hardy flowers, succeeding well in any situation.

Single Mixed. White, Blue, each. Pkt. 5c.

Double Mixed. White, Blue, each. Pkt. 10c.

Cobaea Scandens. A rapid growing climbing plant bearing purple flowers. Should be started in the house and afterwards transplanted out doors. Pkt. 10c.

Cineraria Hybrida. Among the finest blooming greenhouse plants of bright, distinct colors.

Finest Mixed. Pkt. 25c.

Maritima. Candidissima. (Dusty Miller.) Silvery foliage plant beautiful for ribbon beds and edgings. Pkt. 5c.

Cypress Vine. (Ipomoea quamoclit.) A climbing annual of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers.

Mixed. All colors. Pkt. 5c.

Columbine. Elegant, free-flowering, hardy perennials, preferring a moist, sunny situation. Pkt. 5c.

Chrysanthemum. The annual varieties are very showy, effective and desirable as summer flowering border plants.

Annual. Mixed. Pkt. 5c.

Ox-eyed Daisy. White star-like flowers with yellow center. Pkt. 10c.

Calendula. (Pot Marigold). Showy, free-flowering, hardy annuals. Pkt. 5c.

Canary-Bird Flower. TROPAEOLUM CANARIENSE. One of the best climbing plants with graceful foliage and yellow blossoms. Pkt. 5c.

Canna. (Indian Shot). Ornamental, tropical-looking plants, of easy culture, the Crozy varieties having especially large and beautiful flowers. Crozy's fine mixed. Pkt. 10.

Centaurea (Dusty Miller). Dwarf, silvery foliage plants, desirable for beds and edgings.

Candidissima. Pkt. 10c.

Cyanus. (Bachelor's Button or Corn-flower). Well known, constant blooming annual; valuable for bouquets. Mixed. Pkt. 5c.

Callopis, or Coreopsis. (Black-Eyed Susan). A hardy annual, very showy and attractive. It is branching, and is covered with a mass of bright flowers of all shades of yellow, with a dark, velvety center.

Choice Mixed. Pkt. 5c.

Castor Bean. RICINUS. Highly ornamental, half-hardy annuals, of stately growth and having large leaves of bronze or glossy green.

Sanguineus. Brilliant scarlet. Pkt. 5c.

Mixed. Best varieties. Pkt. 5c.

Catchfly. A hardy annual about one foot high. Mixed. Pkt. 5c.

Celosia. Graceful, free blooming plants; they may be grown in pots for the conservatory, and may be planted out after danger of frost is past. Half-hardy annuals.

Cristata. (Cockscomb). Finest varieties. Mixed. Pkt. 5c.

Plumosa. Mixed colors of great brilliancy. Pkt. 10c.

Ostrich Feathered Mixed. Pkt. 10c.

Thompson's Supurb Feathered Mixed. Pkt. 10c.

Datura. FASTUOSA. Trumpet flower. Half-hardy, perennial plants, producing large, sweet-scented, trumpet-shaped flowers. Succeeds in almost any soil. Pkt. 5c.

Daisy. (*Bellis perennis.*) A well known and popular perennial plant, bearing beautiful flowers.

Double Mixed. Pkt. 15c.

Heliotrope. Beautiful, fragrant greenhouse and bedding plant.

Mixed. Pkt 10c.

Hibiscus. (*Africanus.*) Fine, showy plants, with glossy leaves and large brilliant flowers.

Extra Mixed. Pkt. 5c.

Eschscholtzia (California Poppy.) Showy bedding flowers of easy growth, quite popular.

Californica, yellow. Pkt 5c.

Fox-Glove. *Digitalis.* A hardy border plant.

Purpurea, mixed. Pkt. 5c.

Gloxinia Flowered. Pkt. 5c.

Four o'clock. Marvel of Peru. Having handsome, free-flowering, sweet-scented, various colored blossoms.

Mixed. Pkt. 5c.

Forget-Me-Not. *Myosotis.* Beautiful spring favorites, of easy growth.

Alpestris Blue. Pkt. 10c.

Mixed. Pkt. 10c.

Godetia. Fine, profuse-blooming, hardy annuals of beautiful colors.

Fine Mixed. Pkt. 5c.

Lantana. A handsome, free-flowering plant with brilliantly colored flowers. Finest varieties.

Mixed. Pkt. 10c.

Larkspur. (*Delphinium.*) Free-blooming, hardy plants of erect branching habits, and of easy cultivation.

Dwarf German. Double. Mixed. Pkt. 5c;
Tall-Branching, Mixed. Pkt. 5c.

Lobelia. Delicate, low growing, annual plants, of the greatest value for borders, ribbons, edgings, rock-work and hanging baskets. Blue. Pkt. 10c.

Finest Mixed. Pkt. 10c.

Morning Glory. (*Convolvulus.*) Major and Minor. The tall varieties are popular,

well-known, rapid growing climbers, of the easiest cultivation. The Minor or Dwarf varieties flower very freely and do not require support. The flowers are very showy and beautiful.

Convolvulus Major. Tall. Choice Mixed. Pkt. 5c.

Imperial Japanese. Has very large flowers in great variety of most exquisite colorings, and handsome variegated foliage. Mixed. Pkt. 10c.

Convolvulus Minor. Dwarf Mixed. Pkt. 5c.

Marigold. (*Tagetes.*) The Marigolds are well-known, hardy annuals of easy cultivation. The colors are gold, orange and varying shades of these colors. They flower early and bloom all summer.

African. Double Mixed. Pkt. 5c.

French. Double Mixed. Pkt. 5c.

Mimulus. Moschatus. (*Musk-plant.*) Cultivated for its rich, musky odor. Should have a rich soil and ample moisture. Pkt. 10c.

Tigrinus Grandiflorus. (*Monkey Flower.*) Mixed, beautiful spotted, all colors. Pkt. 10c.

Moon Flower. (*Ipomoea Mexicana grandiflora.*) Rapid growing climber belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt. 10c.

Mignonette. (*Reseda.*) Very fragrant, free-flowering annuals, fine for both pot and bedding purposes.

Odorata Grandiflora. (Sweet.) Very fragrant. Pkt. 5c.

Machet. Well adapted for pot culture, dwarf, pyramidal growth, flowers red. Pkt. 10c.

Golden. Similar to the above, but yellow in color. Pkt. 10c.

Nasturtium. *Tropaeolum.* Both the leaves and flowers of the Common Tall Nasturtium are very handsome for table decorations. The Lobbianums are, however, superior to the common varieties. The flowers are larger, more compact, richer and more varied in color. All Nasturtiums are rapid growers, flowering best where the soil is not too rich. Hardy annuals.

Tall Varieties.

Scarlet, Carmine, Crimson, Bright Yellow, Golden Yellow, Orange. Separate colors; each Pkt 5c; 1 oz. 15c.

Lobbianum Varieties. The very finest flowering kinds. Mixed. Pkt. 5c;; 1 oz. 15c.

Madame Gunter's Hybrids. A new race from France, having a richness of color and a



Godetias.

variety of brilliant shades and markings hitherto unknown. Pkt. 5c; 1 oz. 15c.

Common Varieties. Fine Mixed. Pkt. 5c; 1 oz. 10c.

Dwarf Varieties.

Scarlet, Dark Crimson, Golden King, White Pearl, Empress of India. Dark leaves. Crimson flowers. Separate colors; Pkt. 5c; 1 oz. 15c.

Dwarf Fine Mixed. Pkt. 5c; 1 oz. 15c.

Nigella. (Love-in-a-Mist, or Devil-in-the Bush.) Compact-growing, free-flowering plants, with curious looking, showy flowers and finely-cut foliage. Mixed Pkt. 5c.

Portulaca. (Rose Moss.) Unrivaled for the brilliancy and delicacy of their colors. Great favorites everywhere. Single Mixed, 5c. Double Mixed, 10c.



Portulaca.

PANSIES.

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown in the fall, in a cold-frame, or in rich, moist garden beds. In outdoor beds, raised a few inches above the ground, with a mulch of dry leaves and some brush to hold them in place. Pansies will often winter nicely, and bloom until midsummer, when a relay of young, vigorous plants should be ready to replace them. Spring sowing should be made early, so as to secure good flowers during the early rains. Seed sown in a cool, moist place, in June or July, and well tended, will give good flowering plants for fall. If they come into bloom in the heat of summer the flowers may be small at first, but as the weather becomes cooler they will increase in size and beauty. Through summer heat the flowers are finer in a somewhat shaded place, but in almost any situation good Pansy seed will give fine flowers in spring and fall. Early fall sowing gives the finest flowers. Our strains of Pansy seed cannot be surpassed in color and blooming qualities. The collections

offered will give superb flowers in a great variety of beautiful colors.

Trimardeau Giants. These are remarkably large Pansies, which for size of flower and robust growth eclipse all other strains. Their range of color has heretofore been limited, but this season we are able to offer several grand varieties.

Giant White, Pkt. 15c.

Giant Yellow, Pkt. 15c.

Giant Striped, Pkt. 15c.

Giant Black, Pkt. 15c.

Violet Blue, Pkt. 15c.

Giant Mixed, Pkt. 15c.

Mixed, $\frac{1}{2}$ oz., 75c; 1 oz., \$2.00.

Special Offer.

1 Pkt. Each of the Above Six Kinds, 60c.

Bugnot. Its flowers are of enormous size and circular form; the petals are of great substance and velvety appearance, each one bearing a large, deeply colored blotch that runs out in delicate veins to the edge; the shadings comprise tints of red, bronze and brown not found in any other mixture. Pkt., 25c; $\frac{1}{2}$ oz. \$1.00.

Extra Mixed. Large flowering. Pkt. 10c; $\frac{1}{2}$ oz. 50c; 1 oz. \$1.50.

Fine Mixed. Good Assortment. Pkt. 5c; $\frac{1}{2}$ oz. 40c; 1 oz. \$1.00.

Phlox Drummondii. These flowers are of extreme beauty and are greatly admired by all. Their long duration in bloom, combined with their almost unequalled richness of color, renders them of invaluable service in the general flower garden. Half-hardy annuals.

Grandiflora. Fine Mixed. Scarlet, White, each. Pkt. 5c.

Pink. (Dianthus.) For beauty, fragrance and general utility, cannot be excelled.

Chinensis Fl. Pl. (China or India Pink) Double Mixed, Pkt. 5c.

Hedgewigii Fl. Pl. Color varies from richest velvety crimson to delicate rose. Pkt. 10c.



Dianthus Chinensis, fl. pl.

Petunia. Most valuable plants, succeeding well everywhere. They are particularly showy in beds or masses, and are universal favorites on account of their richness of color, fragrance and continuous blooming. Hardy perennial, blooming the first year.

Fine Single Mixed, Pkt. 5c.

Double Mixed, Choice Hybrids, Pkt. 25c.

Inimitable. Striped and blotched. Fine Mixed, Pkt. 10c.

Poppy. (Papaver.) A genus of showy, free-flowering plants, producing a rich effective display in large mixed borders.

Double Carnation. Handsome and well-known species with double flowers of various colors. Mixed, Pkt. 5c.

Shirley. White, through delicate shades of pink to crimson. Best Mixed, Pkt. 10c.

Primula. (Primrose.) The first varieties named below are hardy, early blooming garden plants, and the others beautiful winter-blooming house plants.

Polyanthus. Early-blooming, dwarf-growing plants, valuable for beds. Mixed, Pkt. 10c.

Double Finest Mixed, Pkt. 50c.

SWEET PEAS.

CHOICE, CAREFULLY REVISED SELECTION, INCLUDING THE CHOICEST NEW SORTS.

The seeds should be sown AS EARLY AS THE GROUND CAN BE WORKED in the spring to enable the vines to get a good, strong growth before the warm weather comes. Prepare the ground by thoroughly working in a large quantity of well-rotted manure. Make a trench six inches deep; in this sow the seed and cover two inches deep. As soon as the plants begin to show through, fill in the trench. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continually through the heat of the summer.

America — Crimson scarlet, irregularly striped.

Aurora — White ground, flaked with bright orange.

Black Knight — Deep maroon, clear and shining free flowering.

Blanche Burpee — White, variety.

Blanche Ferry — Extra early standards, a carmine pink, wings almost pure white.

California — Light flesh pink.

Crown Jewel — Primrose yellow, veined with violet rose.

Emily Eckford — Light reddish mauve, blue wings.

Emily Lynch — Deep rose pink, shaded with buff.

Golden Gleam — Deep primrose yellow, the best yellow.

Golden Gate — Pinkish mauve and lavender.

Gray Friar — Purple shadings on a white ground.

Katherine Tracy — Brilliant pink, free bloomer.

Lottie Eckford — White grown, blended with blue lavender.

Lady Penzance — Delicate rose, silky texture.

Lady Nina Balfour — Delicate lavender, shaded with a beautiful shade of gray.

Mars — Bright, fiery crimson; a gorgeous flower.

Mrs. Jos. Chamberlain — White striped and flecked with bright rose color.

Navy Blue — An entirely distinct color, (not tint) elegantly veined, nearly like deep violets.



Sweet Peas.

New Countess — Both standards and wings are pure light lavender.

Othello — A beautiful dark chocolate red.

Prima Donna — Lovely shade of soft pink of large size and fine form.

Pink Friar — Soft carmine rose, beautifully shaded.

Salopian — Deep crimson, suffused with rich orange scarlet.

Schazada — Rich, dark maroon, shaded purple

Named varieties separate. Oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c. Each of above in splendid mixture, oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 50c.

Satpiglossis. An annual having very showy, funnel-shaped flowers of large size. Fine for bedding purposes in rich soil.

Tall Mixed, Pkt. 5c.

Fine Dwarf Mixed, Pkt. 5c.

Stocks. (German Ten Weeks.) Unsurpassed for beauty and fragrance. Fine for pots, bedding, edging, etc., blooming all summer. Fine Mixed, Pkt. 5c.

Dwarf Large Flowering. Mixed, Pkt. 10c.

Dwarf Large Flowering. White, Pkt. 10c.

Salvia. (Sage.) Salvias make fine bedding plants, being easily grown, free flowering and very showy. Splendens, Scarlet. Pkt. 10c.

Sweet William. *Dianthus Barbatus.* The colors are very brilliant, ranging from snow-white to darkest crimson and purple. Hardy perennial. Single Mixed, Pkt. 5c. Double Mixed, Pkt. 5c.

Scabiosa. (Mourning Bride.) Showy border plant, with fine variegated flowers.

Dwarf Double Mixed, Pkt. 5c.

Snapdragon. (*Antirrhinum.*) One of the finest free-blooming perennials, especially good for beds and borders.

Tall Finest Mixed, Pkt. 5c.

Dwarf Finest Mixed, Pkt. 5c.

Violet. (*Viola Odorata.*) Early-blooming plants. Useful for borders, rock work and bedding. Exceedingly fragrant, a few flowers being sufficient to fill a room with their de-

licious fragrance. Thrives best in a cool, shady place. Hardy perennial of easy cultivation, Blue, Pkt. 10c. White, Pkt. 10c.

Verbena. A well known and universally popular bedding plant, blooming all summer. Plants grown from seed are more healthy and make larger and hardier plants than those from cuttings; if sown in spring will flower quite early. Half-hardy perennial. Hybrida Mixed, Pkt. 10c.



Verbena Mammoth.

Wall Flower. (*Cheiranthus cheri.*) A well known, half-hardy perennial, producing spikes of beautiful, exceedingly fragrant flowers. The petals are velvety; the color deep orange shading to brown; rich and handsome. If taken in or protected they will bloom all winter. Mixed, Pkt. 5c.

Dark Brown, Yellow. Each, Pkt. 5c.

Finest Double Mixed. Pkt. 10c.

Zinnia Elegans. Fine bedding and border plants of easiest cultivation, and should be in every collection.

Tall Double. Mixed, Pkt. 5c.

Dwarf Double. Mixed, Pkt. 5c.

Plants, Vines and Roots.

STRAWBERRY PLANTS.

Combination—Self Fertilized. This variety we especially recommend. They produce larger and smoother berries than any other. Very sweet and palatable. Price 75c per 100; \$4.00 per 1000.

We can supply you with the following additional varieties, price 65c per 100; \$3.00 per 1000:

May King.

Warfield.

Mt. Vernon.

Beder Wood.

GRAPEVINES.

The Royal Vernage—The very best grape for all purposes ever introduced in this country. Very prolific, hardy, never mildew, excellent flavor, early bearing, splendid keepers, beautiful color, handsome clusters. Berries are at least one-third larger than the Concord, slightly oval in shape, firm meat, sweet, fruity flavor. The vines are easily grown, rapid

growers, hardy in this climate, do well in any situation, bear young, and produce a large crop. Color, a whitish green, changing to a roseate blush on the side kissed by the sun. Price \$1.00 each.

RASPBERRIES.

Gregg transplants, per 100, \$1.50; per 1000, \$10.00.

BLACKBERRIES.

Snyder, per 100, \$1.50; per 1000 \$10.00.

RHUBARB SETS.

Peach flavor, 5c each; per doz. 40c; per 100, \$2.50.

ASPARAGUS ROOTS.

Barr's Mammoth, per 100, \$.75; 1000, \$4.00

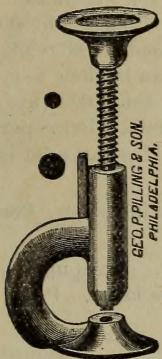
Palmetto, " .85; " 4.50

Mammoth White, " 1.00; " 5.00

Cabbage, Tomato and other Vegetable Plants in season.

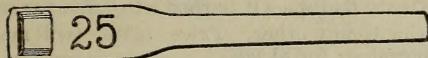
POULTRY SUPPLIES.

We handle a complete line of Poultry Supplies of the best quality. Prices are subject to important market changes; transportation charges to be paid by purchaser except where noted.



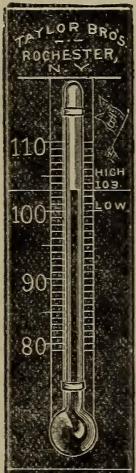
Philadelphia Poultry Marker.—A very convenient little spring punch, as shown in cut, for marking chickens. Price 25c, postpaid.

Champion Leg Band.—Made of soft, pliable Brass band, which is far superior to any other material. The loop is bent up in such a

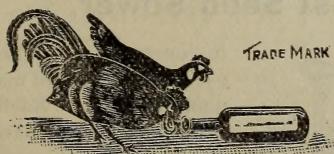


shape that the strap part of the band is easily inserted and fastened, and can be instantly adjusted to fit any bird from a pigeon to a turkey. Price 20c per doz.; 100 \$1.25, postpaid.

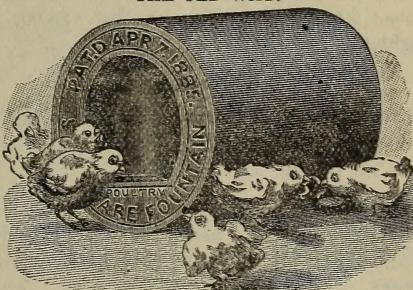
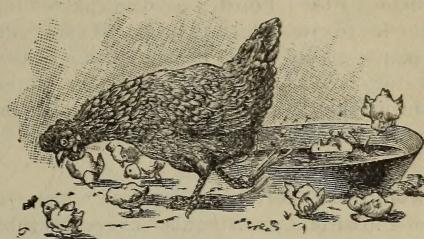
Tested Thermometers.—For incubators. Each 80c, postpaid.



Crushed Oyster Shells. This is a most important article for the poultry yard and should be supplied to the fowls liberally. Of superior quality. Your hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. Price, 10 lbs. 25c; 25 lbs. 40c; 100 lbs. 80c.



Ashton's Poultry Specific.—A positive cure for Roup, Kanker, Gapes, Pips, Cholera, Swellhead, Scaly Leg, and all Diseases of the Head, Eye and Throat. Price 50c and \$1.00 per bottle.



THE NEW WAY.

Stone Drinking Fountains.—Keep the water cool and clean, and prevent the birds from getting wet. Price, 2-quart size 25c; doz. \$2.50; gallon size 35c, doz. \$3.50; 2-gallon size 50c; doz. \$5.00.



Mica Crystal Grit.—Undoubtedly the best quality grit on the market. We have the regular size, and also a small size for young chicks. Price, 10 lbs. 25c; 25 lbs. 40c; 100 lbs. \$1.00.

Caponizing Instruments. \$2.50 per set, postpaid.

Fine Bone Meal.—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 35c. 25 lbs. 75c; 100 lbs. \$2.25.



MISCELLANEOUS.

Perfect Plant Food.—An unsurpassed fertilizer for plants, which is prepared especially for plants grown in the house, garden or conservatory; clean, largely soluble in water, producing healthy plants, free from vermin, and early and abundant blossoms. Per lb. Pkg. 25c; postpaid for 40c.

Lawn Fertilizer.—A plant food which will force a luxuriant growth; also a very desirable and beneficial fertilizer for garden use; Price, 10 lbs. 60c; 25 lbs. 75c; 100 lbs. \$2.00, by freight or express.

TWINE.

White Cotton Twine.—For tying herbs, radishes, beets, celery, onions, salsify, etc. Price, 20c per lb.

Jute.—For tying vegetables, etc. Lb. 15c. (For Twine sent by mail, add 15c per pound postage.) Prices on twine subject to market changes.

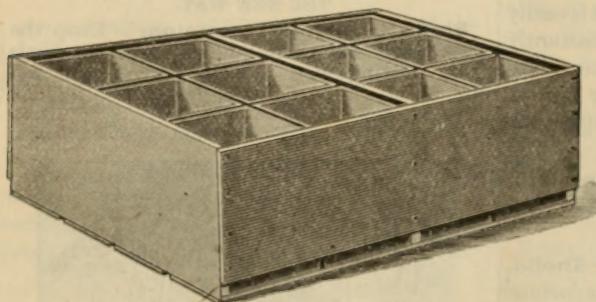
quart. The bottom is set up for ventilation. They are usually put up in bundles of 500 boxes complete for shipment, and are all ready for putting together, which can be done very rapidly. We furnish 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100, 35c; per 1,000, \$2.50. If a large lot is wanted ask for price.

Annealed Tacks.—For making boxes. Per lb. 30c; 4 lbs. \$1.00.

Magnetic Tack Hammer.—Picks up the tacks and saves much of the labor. Price, 15c each.

Crates.—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." Price, 24-quart crates, per 10, \$1.00; per 100, \$7.00.

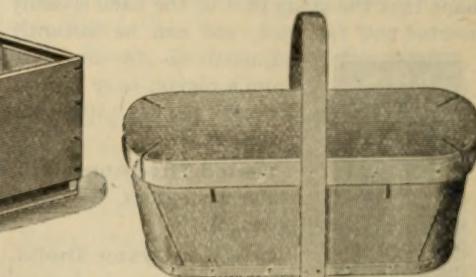
Crate Nails.—Of barbed wire, and far superior to any other. Price, 12 lbs. (will make 100 crates) for \$1.00.



FRUIT PACKAGES.

Being the largest dealers in the west in fruit packages, we can furnish you the best stock made, at low prices. Prices are subject to change during season.

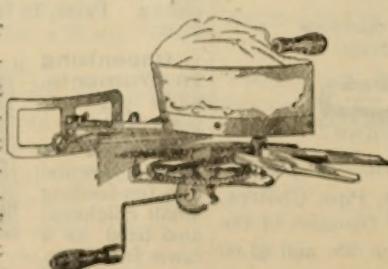
Berry Boxes.—Made of best white wood, heart stock, cut smoothly, and perfect shape; size $4\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{2}$, and will hold a wine measure



Climax Grape Basket.—Illustrated here-with is the best for shipping grapes, cherries, etc. It is of the standard 8-pound size, making a strong but light package. Baskets are nested for shipment with the covers and bent handles in separate packages; also used for egg baskets. Price, 10, 40c; 100, \$2.50. Ask for prices on large lots.

The "Columbia" Broadcast Seed Sower.

A practical Machine for sowing correctly all varieties of farm seeds. Perfect in distribution. Mechanically constructed. Neatest and most simple. Has automatic cut-off and regulator. The lightest running of all seed sowers. Strongest



in construction. The lowest priced standard machine manufactured. Each machine packed separately. The many advantages of this seeder should appeal to every shrewd buyer.

Price,
\$1.25

FARM AND GARDEN IMPLEMENTS.

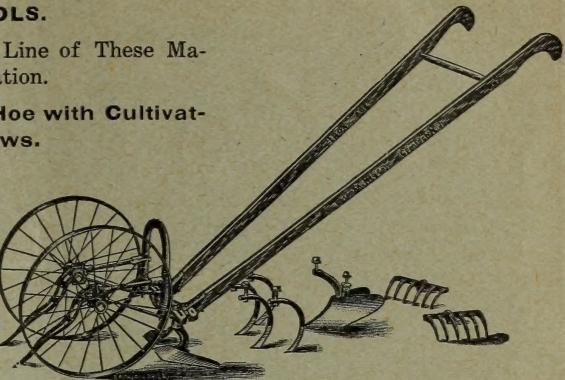
THE IRON-AGE TOOLS.

Separate Catalogue Containing Full Line of These Machines Free on Application.

"Iron Age" No. 1, Double Wheel Hoe with Cultivators, Rakes and Plows.

An indispensable machine to the market gardener or anyone cultivating a garden to the size of a one-half acre. This machine, complete, with all attachments. Price, \$6.50.

"Iron Age" No 6, Combined Double Wheel Hoe, Hill and Drill Seeder.



A practical tool for the market gardener. Will sow all kinds of seed from celery to beans, with the greatest regularity. Can be changed instantly from drill sowing to hill dropping, or the reverse. Complete with cultivators, rakes, hoes, plows. Price, \$11.00.



"Iron Age" No. 7, same as No. 6; no attachments. Price, \$8.00.

"Iron Age" No. 17, Combined Single Wheel, Hoe and Drill Seeder.

This machine sows only in drills. It does not alternate into a hill planter. Many market gardeners demand

a separate machine for planting in hills. It is equipped with a complete set of cultivators, such as hoes, cultivator teeth, rakes, plows, vine lifter, and an attachment for marking out the rows. Price, \$9.00.

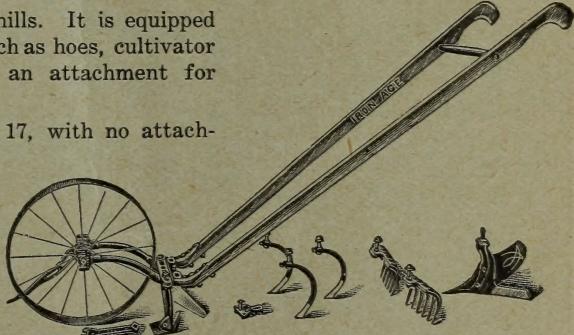
"Iron Age" No. 18, same as No. 17, with no attachments. Price \$6.50.

"Iron Age" No. 20, Single Wheel Hoe.

A strongly constructed implement for the amateur or market gardener. It is light in weight, and of simple construction. The attachments are a pair of side hoes, three cultivator teeth, pair of rakes and a plow, which combined makes a useful garden tool. Price, \$5.50.

"Iron Age" No. 21, Plain Single Wheel Hoe, the same as No. 20, with only the side hoes. Price, \$3.50.

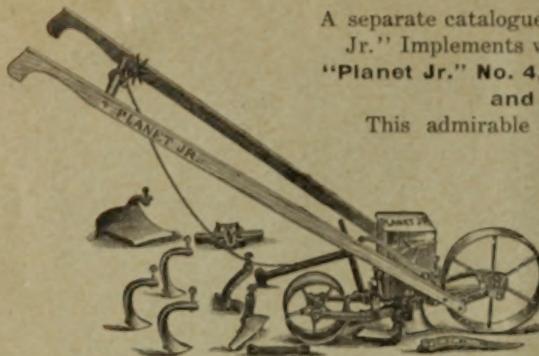
NOTE.—All these tools have the celebrated Iron Age high wheel (16 inches high) and many other points of merit, and are well known to be satisfactory and complete.



Lang's Hand Weeder. It is, in our opinion, the best weeder made. Its special advantages over all other weeders of this class is, that it has a band which passes over the fingers, which when the tool is not in use, gives full use to the hand for pulling weeds and thinning out plants without laying down the tool. Price, 25c; \$2.50 per doz, 30c each, postpaid.

Garden Trowels. 5-inch, 10c; 6-inch, 15c.

THE "PLANET JR." GARDEN TOOLS.



A separate catalogue containing full line of the "Planet Jr." Implements will be sent to all who apply for it.
"Planet Jr." No. 4, Combined Hill and Drill Seeder and Single Wheel Hoe.

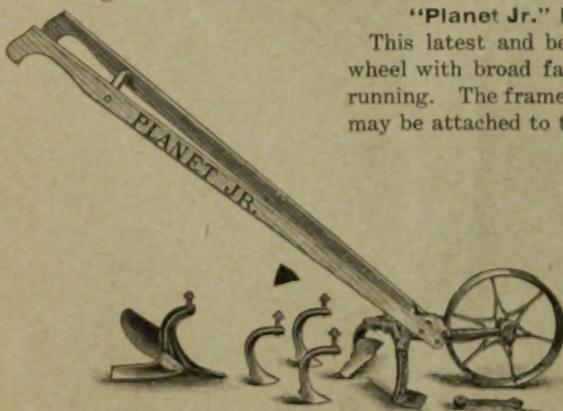
This admirable tool combines in a single convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. With this one implement a farmer can do practically all the work in his small crops. Price, complete, \$10.50.

Planet Jr. No. 4, with no attachments, simply as a drill seeder. Price, \$8.50.

The thoughts of back-breaking, hand-hoeing and weeding prevent many a man from making money out of a garden. The easier, surer and better way is to use a "Planet Jr." Double Wheel Hoe. Cultivates perfectly all garden crops, astride or between the rows. Throws the dirt to or from the row, cultivates the middles, breaks up the crust and levels the surface. Plows, turning furrows either right or left, hills up and furrows out. Adjustable to any width of row. Strong, durable and lasting. Price, \$7.00.



**"Planet Jr." No. 12
Double Wheel Hoe.**



"Planet Jr." No. 16 Single Wheel Hoe.

This latest and best Single Wheel Hoe has 11-inch wheel with broad face; is very light, strong and easy running. The frame changes in height, and the wheel may be attached to the other side of the frame when both sides of the row may be hoed at one passage. Price, \$5.85.

This tool is recommended to farmers, market gardeners and strawberry growers. It has a high frame and chisel shaped teeth. The foot-lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. It contracts to 12 inches and expands to 32 inches. Price, complete, \$8.50.

Plain Harrow, \$5.80. Harrow with wheel \$6.90; complete \$8.50.

